

GATCCAGGGG CTGATTGGCA GCGTGGAGGA GCAGCTGGCC CAGCTTCGCT GCTGAGATGG 60
 AGCAGCAGAA CCAGGAATAC AAAATCCTNC TGGATGTGAA GACGCGGCTG GAGCAGGAGA 120
 TTGCCACCTA CCGCCGCCTN CTGGAGGGAG AGGATNCCCA CCTGACTCAG TACAAGAAAG 180
 AACCGGTGAC CACCCGTCAG GTGCGTACCA TTGTGGAAGA GGTCCAGGAT GGNAAGGTCA 240
 TCTNCTNCCG NGNCAGGTT CACCAGACCA CCNGTTTGAG GNCTCANCTA CCCC GGNTCG 300
 GNCANCCATN TNN 313

SEQ ID NO:4958

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05908

SEQUENCE DESCRIPTION:

GATCATTAAAT GTCATTGCAA TNGTTATTTT TTAAATAAAA TTTATAAAAA TAAA 54

SEQ ID NO:4959

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05912

SEQUENCE DESCRIPTION:

GATCTACAAG AGCAAGCCAA CAGAGTAAAG TGGAAGGAAG TTTATTCAGA AAATAAAGGA 60
 GTATCACAGC TCTTTTAGAA TTTGTCTAGC AGGCTTTCCA GTTTTACCA GAAAACCCCT 120
 ATAAATTAATA AATTTTTTAC TTAAATTAA GAATTAATAA AATACAAAAA AGAAAAAATG 180
 AAAATAAAGG AATAAGAAGT TACCTAAA 208

SEQ ID NO:4960

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05913

SEQUENCE DESCRIPTION:

GATCCAAGTT ATAGATGGAA TTGAAGCCCT TGTCGCTGTA GATGTGCGTG CAGTCTGNCA 60
 GCCTTAAGCC CACCTNGGCA CTTTGTAGATA AA 92

SEQ ID NO:4961

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05914

SEQUENCE DESCRIPTION:

GATCAACAGT AACTGGATGT TTTNAGGNG CTCAATTGGA ATAAAAATAT TNNAATCTAT 60
 TTGGAGACCA AAGGCAAAAT CGGTTTTCTT ACCTTTGGAA TTATTCGTAC CTTTATGGT 120
 AAATTTACAG TTTGACANGT ATTATGAGGA ACGTACCAAA AACCGGTTTG TAACAAATCT 180
 NTAGAGNAGG TCTGAATCTN TCGNNCTTGC CTTTTCAGGT GCCATTTCTA CTGGCCTAAT 240

ACAGNGCCAT TTGGCTTGTG AAGNNCCATN

270

SEQ ID NO:4962

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05916

SEQUENCE DESCRIPTION:

GATCTATGCC CNTNTTAATC TCCATCCATA TAGGAGTCAC GTTCTTTAAG ACAGATGGTG 60
GTAGTTATTT TTGTGGCATG GTTAGATTG ACTGGTTTTC CAGAAGATTA CAGTTATGTA 120
CTGCATAATG NCATATACAA TAGTGGTCCC ATAAANNNNN TAATGGAGCA GAAAATCTAT 180
TGCCTCATGA TGTTTTAGCC GGTTTANTGT CATAGNCTAG TGCATNACTC ACGTGN 236

SEQ ID NO:4963

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05917

SEQUENCE DESCRIPTION:

GATCGAGTAA GGAATGACCT NTAGATTGTG CGACTTTTGT TTTTGTTTTN TTAAATTTTT 60
ATAAACCAAG AATGATTCTC CCNGCTTCN TCTCCTCACC ATCTTCCCAG ACGGAGTTCA 120
AAGGCCACTT CTCAGCAGC TTTTGGCACC TTCAGCCTCA GAGTGGAAATC TTTTAAAGAC 180
AGGACCCCTA TGTCCAGGNA AGGGGAAAAG GAACNTTGCC ANTGATAGTG ACCACAGCAN 240
NNGCAANTAA TAGTAATNTT NATAN 265

SEQ ID NO:4964

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05918

SEQUENCE DESCRIPTION:

GATCACATTT ATACAGTTAT AAAAATAAAG GTTTGATTTT GGTCGTTCTT CAAA 54

SEQ ID NO:4965

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05919

SEQUENCE DESCRIPTION:

GATCTCTATG GCTGTAAAT ATTTCTTTAT AGCGTTATTA AAGTGTGTCT TAATAAAATT 60
AAA 63

SEQ ID NO:4966

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05920

SEQUENCE DESCRIPTION:

GATCCACAAA AGAAGTGAAA GTAGCCTTAA CTGATGACAT TCCACCATTG TNATTTGTTT 60
 CTGCCCCACG CTAAGTGATA CCATATATTC TTCCCCCGCC CTTGAGAATG TACTTTGTAC 120
 ACCTATCCCA AACCTATAAG AACTAATGAT AATCCNACCA CCCTTTGCTG ACTCTCTTTT 180
 TGGACTCAGC CCGNCTGCAC CCAGGTGAAA TAAACAGCCC TGTGCTCAC AAA 233

SEQ ID NO:4967

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05921

SEQUENCE DESCRIPTION:

GATCTCTGCG TTTTATACT GAGTGTGCCT AGGTTGCCCC TTATTTTNA TTTCCCTGT 60
 TCGCTTGCTA TAGATGAAGG GTGAGGACAA TCGTGTATAT GTACTAGAAC TTTTATTATA 120
 AAGAACTTT TCCCAA 137

SEQ ID NO:4968

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05923

SEQUENCE DESCRIPTION:

GATCTGTAAA CCCTTACCCC TTGCTGTTCA GAGAGCTACT CTTGTAGTG TTCTGCATG 60
 CATATATAAT AAATATTTT TCTATTGAAA 90

SEQ ID NO:4969

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05925

SEQUENCE DESCRIPTION:

GATCTAAATC AATGCAATAA AGTAAGAAAA ATAAATAAAA GTATTGAAAA GATTGAAAAG 60
 AAAGAATTGA AGCTGTCTTT ATTCACAGAT AATGACTGTG TATGTTAATA ATCCTAGANA 120
 TCTACAAAAN TCTGCCAAAN CTAATTAGTG AGTTTGGTAA TGTTGCAGGA TATAAGCTCA 180
 ATAGAAGTAG TCTTTNGTAT TTCTGTGTAT TAGCAGTGAG CATTTGAAA ATGANATAAN 240
 ANTACAGTTT CATTTCAAA 259

SEQ ID NO:4970

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05926

SEQUENCE DESCRIPTION:

GATCTGTGCC CTTGGTCCCA GGTCAAGGCC ACCCCCTGCA CCTCCACCTG CCCAGCCCC 60
TGCCTCTNCC CCAAGTGGGG CCAGCTGCCC TCACTTCTGG GGTGGATGAT GTGACCTTCC 120
TTGGGGGACT GCGGAAGGGA CGAGGGTTCC CTGGAGTCTT ACGGTCCAAC ATCAGGACCA 180
AGTCCCATGG ACATGCTGAC AGGGTCCCCA NGGAGNCCCC GTCAGTAGGG ATGTTTGCCT 240
GGNTGTTTAC GTNGGGGTGT NCAGTGNACG TGNAGGAGCA CGTGGGCGGC TTCTGNGGGG 300
GNCAATGGTT TGGGGNANGG GAAGGTGTGC CAGCAAACCT NGGNNGGATN 350

SEQ ID NO:4971

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05927

SEQUENCE DESCRIPTION:

GATCCACGGG CTGCAGAATG GATATTGTAT TAGCAGGCAT GAAAACAACA TTCATCTCCT 60
TGTGCATCTC TGTCTGAGTT CTTGGGTGAC CAAATGCCTT GTCAATGAGT GTAGTATTTT 120
GAAAGGAATC TTTTTTTTTT TTTTCNCAGC AGTAGGNCNC AANGGTGGGC TTCAATTATT 180
CAGTAAACTA TGTAANCAGA AA 202

SEQ ID NO:4972

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05928

SEQUENCE DESCRIPTION:

GATCCAGCT ACTCAGGAGG CTGAGGCAGA AAAATCACTT GAACCCAGGA GGTGGAGGTT 60
GCAGTGAGCA GAGACCACAC AACTGCACTC CAGTCTGGGC AACAAAGTGA GACTCTGTNT 120
TACTAAA 127

SEQ ID NO:4973

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05932

SEQUENCE DESCRIPTION:

GATCCTATCA ATTAGACAGT AAATAAGTGC ATCTTTTTTG AGACAAATGC AGTAGGCAAA 60
TGTTGACATT CACCAGGGCA CAGTCAATCC CTGACAATT CAGAAGTTT GTTGCCAATA 120
CTGATTTATG TGGGCAGATT CTGGNAGTCT GCTGCTCCTT CNCTCATGGA TNACCTNCNN 180
NNNCCTACAG TTGCACCTAT TCTACACAAG AGTGGCATT ANTNGTATCC AGGAAAGCTA 240
GANCAGGTN 249

SEQ ID NO:4974

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05933

SEQUENCE DESCRIPTION:

GATCCGAGTC GTCCGGAAAT CCATTGCCCG TTTCTCACA GTTATTAACC AGACTCAGAA 60
 AGAAAACCTC AGGAAATTCT ACAAGGGCAA GAAGTACAAG CCCCTNGACC TCGGGCCTAA 120
 GAGACACGTG CCATGCGGCN NCGCTNAACA AAGACGGGNG AACTTAAGGC CAGGAGAGCA 180
 NNGNAGGAN 189

SEQ ID NO:4975

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05934

SEQUENCE DESCRIPTION:

GATCATCATC TTTCAGGTGG TCTTCCTGGG CCTCCTGGCT GGCCTGGTGG TCCTATTCTA 60
 CGNATATCCT GTCCNCTGTG AGTGGTATGA GTTCCTCACC TGCATCCCCT TCACTGACAA 120
 GTTCTGTGAG AAGTACGAAC TAGATGCTCA GCTCCACTGA GCTNGCTGCG GGGTTNCAGC 180
 GNNGGGTGTG CTCCAGCAGG GCCAGAGNCA GNCAAGANCT ACNCTGNNGN 230

SEQ ID NO:4976

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05937

SEQUENCE DESCRIPTION:

GATCATTAAAT TATATGTAAA ATAATATACA TTCAGTTATT AAGAAATAAA CTGCTTTCTT 60
 AATAAA 66

SEQ ID NO:4977

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05938

SEQUENCE DESCRIPTION:

GATCTATGTC TTTCAGCTAT GTGCTTTTAA AACTTTGTAA TTTAGACATT GATATTGTCA 60
 TCAGATTGCT TATCAGCATT GCCATAAATA TAATTATTAA TGAAA 105

SEQ ID NO:4978

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05939

SEQUENCE DESCRIPTION:

GATCTGCCCA CCTCGGCCAC CCAGAGTGCT GGGATTACAG NCGTGAGCAC CGTGCCTGAC 60
 CAAAATAAAT AAATTTTAAA ATAGAAGTAA CTCAACTTCT GAGCTATGGA ATAGTTCTCT 120
 GTACCTCCAG TACCTAATAA AGAACCCAAA TACTGCAATA AA 162

SEQ ID NO:4979

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05940

SEQUENCE DESCRIPTION:

GATCGAGGAC TGGTACAGGA ACCACCAGGA GGAAGACCTG ACTGAATTCC TCTGCGCCAA 60
CCACGTGCTG AAGNGAAAAAN ACACCAGTTN CCTGGCAGAG CAGTGGTCCG GCAAGAAGGG 120
AGACACAGNT GCCCTGGGNG GGANGAAGTC CAAGAAGAAG AGCATCANNG CCAAGGCAGC 180
AGGNGTCAN 189

SEQ ID NO:4980

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05941

SEQUENCE DESCRIPTION:

GATCTNTTTA AAAAATGTAT AAATTNCTTG AGTAATTCCT GGATTAAAGA ATATGCACTT 60
TTTAAA 66

SEQ ID NO:4981

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05942

SEQUENCE DESCRIPTION:

GATCGCTGGC ATCAAGAGTG GAGAGGACCG NACAGCCGNG AAGGCAGCCT TTCANGAACC 60
TATGCTGGTG AGTGTAGGAG ATNGCTTANG AAGAGCTCAG ACCCTCTATC AAN 113

SEQ ID NO:4982

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05943

SEQUENCE DESCRIPTION:

GATCATAGTT ATTATACAAT GTAGTGAGTC CTGCATGGGT NCTCGATGTG TAATGAAACC 60
TGAAATAATA AGATAATAAG AAAAGCAATA ATTTTCTAAA GCTGTGCTGT CGGTGATACA 120
GAGATGATAC TCAAATTATA ATAAACTCT TCATTTTGTG AATTATAGAA GCTACTNNNN 180
NTAAAGCCAT ATTTTTTTAG GGAAACTAAG GAGTGACATA GAACTGATGA ATGAGCAAAA 240
GTAAGTTTGT CTGGATTTT GTAGAACTCT GGACGTTGAG GATTCATTAT GCTGTGGTTA 300
ACTTTAAATA TTTTNN 316

SEQ ID NO:4983

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05946

SEQUENCE DESCRIPTION:

GATCAGCCCA CTCAGTCTC CCAAAGTGCT NGGATTACAG ACATGAGCCA CCTACCTGNC 60
 CGGAGTTATT TCTAAACACA ACTAATATCA GAATCGCCTA TTTCATAAAA ATTGGATTCA 120
 TCAAATNAAT CTTTGGCCAA CAACCATTTG AGAATGATNN NNANCATCAT ACATAGGAAT 180
 GCTACGTTTT CTAGGATTTG ACATTTACAG CANTCGAGAN TTACCCTATT TTGTAAATNG 240
 AAATAACCAT TACTAAAATC ATGCAAGCTT CAGCTNCTCG GGTTCTATA GNGTCACCTA 300
 AATCGTATGT GNATGGATAC ATAAGGNTTA TGNATCAN 338

SEQ ID NO:4984

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05947

SEQUENCE DESCRIPTION:

GATCCGCCCCG CCTTGGCCTC CCAAGGTGCT GGGATTGTAG GCGTGAGCAC CCCTGGCCTC 60
 NAATNTTCAC ATTTATATAC TGAATTATAC ATTACATTAT GTACATATGA TAACTAGTTG 120
 CTAAATATT TTAATAAATT ATATCTAATG TAAA 154

SEQ ID NO:4985

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05948

SEQUENCE DESCRIPTION:

GATCATGCAG AGAATATATA TTGTACTGTA GTAATTTNT ATTTACATTT GTATGATGTG 60
 ACATAATAGA TGTGAATGTT AATCACTGNT TGACTATGTT AATAAAGTTG TTAACTATA 120
 AA 122

SEQ ID NO:4986

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05949

SEQUENCE DESCRIPTION:

GATCTCTATT TTAATNNTAA TTCTAGTTAG TTGTGCCTNA ACTCCAAAGA AATGNGAGTA 60
 TAGTGAGGTA TGTCTGACTC CCACTTCTTA TCATGCTCTG AACTAGTTNT TTATGTTTCT 120
 TTGTGTTNCC TTN 133

SEQ ID NO:4987

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05951

SEQUENCE DESCRIPTION:

GATCGCACAC ATGCTTTNTT NNNATATGGA GTGAACACAA TTATGTACCA AATTTAACTT 60
 GGCAAACTTT CTATTGCCGTG TCCCATGTGC ATCTTATTTA AAATTTCCCC CATGGAAATC 120
 ACTCTCCTGT TGACTATTTC CAGAGCTCTA GGTGTTTAGG CAGCGTGTGG TGTCTGAGAG 180
 GCCATAGCGC CATCATGGGC TGATTTTNA TTACCAGGTC CCCCAGAAGC AGGTGGGGAG 240
 GCTCTGCTTN CTGCTGCCGG TCTNCAAGNC TTGGACCTNT GGACCCTGNT TTGTAAAGNG 300
 TAAATTNGTA TCCTTNAGGG AAACCCAAGT GTCAACCTTG TTTNTTCAAT N 351

SEQ ID NO:4988

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05952

SEQUENCE DESCRIPTION:

GATCGACACA TTCGNATCTN NAATGNGTGC TCTGGGGCCT GTCTGAGTGC CGTGGATGCC 60
 CATTCCCAGG TGTGCTCCAT CCTCTGGTCT CCCCATTACA AGGAGCTCAT CTCAGGCCAT 120
 GGCTTTGCAC AGAACCAGCT AGTTATTTGG AAGTACCCAA CCATGGCCAA GGTGGCTGAA 180
 CTCAAAGGTC ACACATCCCG GGTCTGAGT CTGACCATNA GCCCAGATNG GGCCACAGTG 240
 GCATCCCGNA GCANCAGATT GNGACCNTGA GGCTATGGNC GCTGTTTTGA NGTTGGTACC 300
 NTGCGNNGGN 310

SEQ ID NO:4989

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05953

SEQUENCE DESCRIPTION:

GATCTGAAAC AAAATCTTTC TAAACATTG TTTTAGTTGT CAAAGCACCA ACAGGACATT 60
 TTGGGATGTG AAATGTAATT TCTTGAATC TGTAATTTGT ACTTAATATT TNAGGCTTGT 120
 ATTTAATATA ATAAATAGGT GTTTGTAAA 150

SEQ ID NO:4990

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05954

SEQUENCE DESCRIPTION:

GATCATCCCT TCACAATCCC AGAGTGGCAG GCGGGACCAG CCCCATGGTC TGGCTCCTGT 60
 CACCTGGGTC CGTGCCAGCA CAATCTGCCA AAGTTCTAGA GACCCTGTTT CCTTCCCCAT 120
 NAGGTCACAT GCTTCTCTG TGTGTATTTC TTTTGTGTTT TATGGTTTTT GGAGCAATTT 180
 AAACCTCCAG TTGNNTATTT TCACAAAAGA AANTAAAATT GCAGTTGCAA GCCCTTTAAA 240

SEQ ID NO:4991

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05955

SEQUENCE DESCRIPTION:

GATCCTTTTT TGTACATTTA AGAATATTTT GATTATATTA AACAAAGACTG CTGATTTTGC 60
 TACTTTTTTT AAGGGGTCTT CANGTANGTA AAACATACAT CGTAGCTAGA AGAAAAATGT 120
 ACCTTAAATT TGCATCTTCC CTCTCATACC CAAGCTGTAA ACAATTGAAA TATTTTGTCT 180
 TAAATCACTT GGTCAATAC ATGCTTATTT GTTTTAAAAC CTGTATCATC ANACTCTCTC 240
 TCNAAATTTA AAATGCTGTT GAATATGATA CTTTGTAGGA GAGAGTGTGC TCAGAACTTA 300
 GACGGGGTTT GGTAGGCCAA NGN 323

SEQ ID NO:4992

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05956

SEQUENCE DESCRIPTION:

GATCTTAACC ATCACAAGTT TTTACCCTCT TCCTTCATGC CTGACCTCAA CCCCCTCTC 60
 CTCATCCTAT TCCTAAATTA GGCTAATAAA GTGAAATTGG TATACTTAAA 110

SEQ ID NO:4993

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05957

SEQUENCE DESCRIPTION:

GATCGCTTGA GCCCAAGAGT TTGGGACCAA TCTGAGCAAT ATAGCAAGAC CCCATCTCTA 60
 CAAAGAATAA AGAAAAATTA GACTAGCTTG GTGGCATGTG CCTGTGGTCC CAGCTACTCA 120
 AGAGGCTGAG GTAGGAGGAT TGCTTGAGCC TGGGAGGTGG AGGCATCAGT GAGCCATGAC 180
 CGTACCACTT CATTCCAGCC TAGGTAACAG AATAAGACCC TGTCTAAA 228

SEQ ID NO:4994

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05959

SEQUENCE DESCRIPTION:

GATCAAGCTA CACATCAGTT TTACAATATA AATACTTGTA CTACCTTAAT GATAAGNACT 60
 CCTTAAAGTT CCATTGCTA ATNATTAATA CACTGTTTGG GCTGGCCAGT TTTTCATGCA 120
 TGCAGCTTGA CGATTGAGCA CAGTCAGGCC TTTGTATTAA AAATGAAANA TGAAANAACA 180
 AA 182

SEQ ID NO:4995

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05960

SEQUENCE DESCRIPTION:

GATCAACTGG TTTGTGTTTT GCTGCTGCAT TTATCCCAAG TNAACAGGT TTAATCTCCA 60
GANGAAAACC AAAATACCAT GGGATTTATG CTGNATTGAC ATCTTGCCCT AAACGNACAA 120
CATCATAGTA ATTTGTCATG GGCAACATGA CCAGNGAGAA GATTTTGTG ATGATTTTAA 180
ATACACTGNC ACGCTACTGT TGGTTAAATT TAAACANGTT TTACCTGCAG NAATTCTCTC 240
ACAAATAACC NGCAATAACT TGAAATGCAT NCCCTTTTGA ACACTTCCTT TNCTCATGGN 300

SEQ ID NO:4996

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05961

SEQUENCE DESCRIPTION:

GATCCTGCTC CCTTCTGGGC TCTGACTCTC CTGGAAATCT CTCCAAGGCC AGAGCTATGC 60
TTTAGGTCTC AATTTTGGAA TTTCAAACAC CAGCAAAAAA TTGGAAATCG AGATAGGTTG 120
CTGACTTTNA TTTTGTCAAA TAAAGATATT AAAAAAGGCA AA 162

SEQ ID NO:4997

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05962

SEQUENCE DESCRIPTION:

GATCTCAACA ATATTCTTCC AAAATGGCAT ACATCTTTTG TACAAAGAAC TTGAAATGTA 60
AATACTGTGT TTGTGCTGTA AGAGTTGTGT ATTTCAAAAA CTNAAATCTC ATAAAAAGTT 120
AAATTTTGT CTGAAA 136

SEQ ID NO:4998

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05963

SEQUENCE DESCRIPTION:

GATCTGACCT CAGAATATGC TTTCAGTGTT ATTTCTGACT AGTCCTTTTT AAA 53

SEQ ID NO:4999

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05964

SEQUENCE DESCRIPTION:

GATCTGCATA AAGTNTTACA AACAAAATCC TCTTNATGAG CAACACATTT TTCAGCTGCC 60
AGTCAGACCA ACTGCTGTAA AGAACTTATA TCAAAGTGAG AAGCCACAGA AATGGAGAGT 120
GGAAATATAT AGTGGTCAAA AGANGATTAA GACAGTTTGG CAACTGAGTG ACAGCTCACC 180

CATAGACCAT CTGANTTTNC ACAAACCTGA TTTTTCGGAA TTATCACTAN ACGGTAGCCT 240
 NGAAGAAAGG NTATNCTTTN CTANCATGGT TACCTGCAGC CAGGTGCATT TGCAAGTGAN 300
 GTGTGCTGGT TGANGTCCTC TTNTAAGGGN ATTN 334

SEQ ID NO:5000

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05966

SEQUENCE DESCRIPTION:

GATCTTCCAC TAGATGTCAC CAAAAGGACT GAGAACTAGA GAAAAGGGCT GCGATTCTG 60
 CTCTCCTTGT AAGATTGCAC AAAAGANTAA ATTGCATTGA TCGCTGTTTG CATGAAA 117

SEQ ID NO:5001

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05967

SEQUENCE DESCRIPTION:

GATCCCCCTT CNAGGTAGTG AAAATNAAAT NCGCCGGAGT GTGGCTGCCT TCACCGCGGA 60
 CCCTCTGTCT CTCCTGCGCA ACGTCTGAGC ACAGGAGCCC ATCCTTGGCT CTAGGNTTCC 120
 NCCGCTGGAA GCCTTCTGTT CANACACCCC TTATGNTCCA AGGCCTGATG TGAGCCAGCG 180
 GGGGGTGCAT GGGAAACTGN ACCCNACAAC CCACATCCTN CATCCTGACT GCAGCANTGG 240
 GGTTCCCCGG CAGGGNTGGG TGAGGNAGGA AGGGGGTCAA GCCTGGNGTN 290

SEQ ID NO:5002

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05968

SEQUENCE DESCRIPTION:

GATCACCGTG AATCCGGCTT CCTCTGAGCA TTCGATGGCC TTAGCACCTC ATCAAGCCAG 60
 CACATCCTGC CTGCTGTTGC AGCCTGGCTG GGTATTATCT TCAGTTACCC TAATCCCATG 120
 ATGCCTGGAA CTTGATTAC CGTTTTACAT CAGCTCTTGT ACTTTTNAGT ATATTTTCAT 180
 AATGAGTTAT ATTGTCATTT AGACTTTGAA CAGCTCTGGG AAATAGAAGA CTAGGGTTGT 240
 TTCTTAAAGT TTAGCTCATG TTATAATAAA AAGTTGNAAT GAAA 284

SEQ ID NO:5003

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05969

SEQUENCE DESCRIPTION:

GATCGTCCCT GGTCAACCGA CTTTGGAATT TGCACCATCA TGTTTCAGTG AAGATGCTGT 60
 AAATAGGTTC AGATTTTACT GTCTATGGAT TTGGGGTGTT ACAGTAGCCT TATCACCTT 120

TTTAATAAAA ATACACATGA NGACAAGAAA GAAATGGCTT TTCTTACCCA GATTGTGTAC 180
 ATAGNGCAAT GTTGGTTTTT TATAAAGTCT AAGCAAGATG GTTTTGTATA AANTCTGAAT 240
 TTTGCAATGT ATTTAGCTAC AGCTTGTTA NCGGCAGTGT CATTNCCCTT TGCACTGNAA 300
 NGAGGAAAAA NNNGGNATTA AAAGGGTGC CAANTTGGCA AAAGGN 346

SEQ ID NO:5004

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05970

SEQUENCE DESCRIPTION:

GATCTGCTCG CCTCGGCCTC CCAAAGGATG GGATTACAGG CACCAGCCAC TGNGCCTGGC 60
 TGGCCTCTGN TTTTAAATAA AACNTGACTA GAGTGACTCC ATCTTAAAGT GAGTAGCTAG 120
 GCACTTACAA GGTTCATGCT TATGGCCTGA AAATAACCAC ATCCCAGGCT GACCACCAAT 180
 TATAATTACA GANTATTAT GGCCATACAG NNCATGNTCC ACCAAGCCTG CAGAATGTCC 240
 AAATNTCCTA AGAATGCAGC CNCCATTACT TANATATANC ATAAATGAGC ANGCTTAGGT 300
 TGCAGGNTTA ATGGTCGTGG ATANCAGCAT TNGNCCN 337

SEQ ID NO:5005

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05974

SEQUENCE DESCRIPTION:

GATCAGGGTT ACATAGGTTT GGTAATAA GTGCTGGAAA TNACTTTCT CCCAGTAGTC 60
 TTAGGTCATG CTCAGTGAAC TTAAACTTTA TCCAGATATG GTTTTCCTTC AGCCTTTCTA 120
 TTCCCTTTCT AGCCAGTGAA AGACCGCTG CCCTTTGACC TCAGCCCCTC CAAGCCCCCA 180
 AGTTTAAAC GCCACCCNCT GCCACCAGAA A 211

SEQ ID NO:5006

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05975

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTTGGCCTC CCAGGGTGCT GGNATTGTAG GTGTAAGCCA CCAGGCCAG 60
 GCTAACCTT TATAAGAAAT AAAGTCTCCT CTCAAAATT AAA 103

SEQ ID NO:5007

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05976

SEQUENCE DESCRIPTION:

GATCCGTCTG GGCACGCTGG AGCAGGAGGC CACAGCAGAC GTGGAGTGGC GCTGGCACCC 60

TTACACCAAT ACCGCACGCA AGAGAGTCTT CCTGAGCACC GAGTGAGCAC ACTCACCCT 120
 CAGTCAGGAC ATGGACTTGG AACTCAGGAT TGGGCTGTCA TAGACAGACC CACCAGTAGG 180
 AACTGTCACA GAATGGCCTG CTGAACTGGG ATGTGGAAC GTGGCGGGTG GAGAGGTCTG 240
 AATAAACCGT CTGTGTCATG GCAAA 265

SEQ ID NO:5008

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05978

SEQUENCE DESCRIPTION:

GATCATCAGC AATNCCTTCT GCACCANCAA CTGCTTAGCA CCCCTGGCCA AGGTCATCCA 60
 TGACAACTTT GGTATCGTGG AAGGACTCAT GACCACAGTC CATGCCATCA CTNCCACCCA 120
 GAAGACTGTG GATNGCCCCT CCGGGAAACT GTGGCGTGAT GGCCGCGGGG CTCTCCAGAA 180
 CATCATNCCT GCCTCTACTG GCGCTGCCAA GGCTGTGGGC AAGGTCATCC CTGAGCTGAA 240
 CGGGAAGCTC ACTGGCATGG NCTTTCGTGT NCCCACTGGC AANGTGNTCA GTGGTGGTNC 300
 NGANCGTN 308

SEQ ID NO:5009

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05980

SEQUENCE DESCRIPTION:

GATCCGATTT GTGGAGGATG AGAAAGATGA AGAAGACAAT NAGACGAGAA CACTTCTAAG 60
 GCGAGCCACT CCACACCCAG GGGAGTTAAA GCACATGAAA AAGACAGTGG AGAATTTACG 120
 GAATGACATG AATGCTGCTA AAGGACTGGA CTCAAACAAA AACGAGGTCA ATCATGCCAT 180
 TGACCGAGTG ACCACTTCTG TGTAGAGTTT CACCTCCAAG TTTTACCTCC TGTGTCTTCC 240
 TCTGCTGTCG AGACGTTTCT GTCTGCTTNC CGGGAGCCTC ACGTGCTCCT TGTCTAACC 300
 AGCCCCCGNG NGCCATCTTT CCCGTGGAGT GTTGTN 336

SEQ ID NO:5010

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05981

SEQUENCE DESCRIPTION:

GATCGCTTTT NTGACTGTTC ATCTGTCCTT GACAGTGGCT GTCATATTGA CTACTTTNTT 60
 GATTTGTTGG TATTGGGGAC ATTTAAAGG CTGAGTTATT TTTGAATGTC ATGTTTATGT 120
 CATAGACGTA GTTTTCGCAT CCTGAATTA AACTGCCTTA ACTCCTTNG TGGTATAAGC 180
 AAAACTCCAT GGNCNNNGTC CTGGTATCCT TTTCTGTGT GGTGGCCCTG TGTCTCTGG 240
 CCTAGGGTTA AGTNTGCAAG ATAATACTC GTGAGTATTC AGAATGTNGT NCCTAATAAA 300
 TGCATTGTN GTCTGTCTTC TTTTNN 327

SEQ ID NO:5011

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05982

SEQUENCE DESCRIPTION:

GATCAAGTTT TAAATCCTCC TCCTTCCCTT TTNCTGGAG TTTGAGGGC CAGAGTTTN 60
NTTTTNTTT TTGTTTTGT TTTCTGCTT GCTACTGTTT TGTGGTGTG AAAAGTGGT 120
TAAACCTGAG ACTAACTTAA ACACTTCCTT GACCTTCTNG TTGCCTGTNC ATTTTGTGC 180
CAAGGAAGTA GCTGCCCCAG TGTATGTCTT GCCTTCTCCG CGTCATTGTT GGAAGAGGAG 240
AGATGCATCG AGCAGTCCCA GCTGCTTTC ATTTATAACG GCTTCTTTC AGGACCTGAC 300
AGAAGTCAGG GAAGAGTCCC TGGGNN 326

SEQ ID NO:5012

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05983

SEQUENCE DESCRIPTION:

GATCATTGA CTGGGCTGGA GAACATCCTT TTACATGGCC NTCCCATGGA TGTGCTGTAC 60
ATCTGCTTAA AAGAAAATAA TTAATTNAT GAGCGTCTT AAAAGGACTC TTGGTGCAAC 120
AGACTNAATT GGAACCTCAGC TTTTCTAACT GTCACCTGCAC CAAGCTCTGC TGGAGGAGTG 180
ACCAGACTCA CGATTGGTA TAGTGGGGCT CTCAAGCATC TTCAATTGA ATGTACATGC 240
TGCTGAGGAG CCGGTGAAGT CATCAGTTCC GCACATCCCT TCTACCCTNC AACTGCATGG 300
GAAGCCAAAG TNCTGGTTTT GAAGAN 326

SEQ ID NO:5013

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05984

SEQUENCE DESCRIPTION:

GATCTGGGGG CTAGCAGTGA GTACCCGCAT GGTATCAGCC TGCCTCTCCC GCCCAGCCCC 60
TGCTGTCTCC AGGCCTATAG ACGTTTCTNT CCAAGGCCCT ATCCCCAAT GTTGTCAGCA 120
GATGCCTGGA CAGCACAGCC ACCCATCTCC CATTACATG GCCCACCTCC TGCTTCCAG 180
AGGACTGGCC CTACGTGCTC TCTCTCGTCC TACCTATCAA TGCCCAGCAT GGCAGAACCT 240
GCAGCCCTTG GCCACTGNAG ATGGAAACCT NTCAGTGTCT TGGNATGACC CTACCNAGGT 300
GGTGGGTCTC CAACANAGCC ACTTGTN 327

SEQ ID NO:5014

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05987

SEQUENCE DESCRIPTION:

GATCTCAAAA AAGAAGGAAT TTCTCCTTG TTTCTTGCA TTAATGTAAG AATACTTTAA 60

ATCTCTAAGC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT AGTAGTAATG 120
TTTTATCCAT TTAGCATGTG TTTATNTNTC CATATGTNCT CAAAGGTGAC TTATTGGTTC 180
ACCTCAGTGA TATTACAGCT AAANNNTCA TTCATTAGCA AAAGGNAAAG TGGTCTCAAC 240
CTAACATCAG ANGTGTTTCT NATTATGNTN TNATATTGCG TTGGANTATT GGN 293

SEQ ID NO:5015

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05988

SEQUENCE DESCRIPTION:

GATCTATACA GGTATGTCTG ACGGGACGCA GCACCGTGGG CACGCACCAA ATAGAGTTTT 60
TAAAAGAGAA A 71

SEQ ID NO:5016

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05989

SEQUENCE DESCRIPTION:

GATCCTNTTC TTTCAGCAGG TGAAAAATAA AACGCAGTTC AAATTTTCATG GTTTTAATTT 60
TCANCTCAGA AGCACTCAAA AATGCAAAAT GTGATAATGG GCACTTGTTT AAAAGANTTA 120
GTGTATCCAG CCTTCACTCC AGCTGGTTAA AAATGTTGCA CTTNTCAGCA ACCCTACCAC 180
TTTCATCTGC TGAAAGGNCA NATGTGCTTG GTTTTACNAT TATGTAATCA CAACTTACTT 240
TCTGCTTGTN GTNGCTTAAA ATTATGTATT TGGTCTTTGG GCTGCAANTT GGTTTTATGC 300
TGGATTTGAT GNTNACTGGC NGNNAGTTTG ACCTTTGCTG NTATGGGGAA ANTN 354

SEQ ID NO:5017

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05991

SEQUENCE DESCRIPTION:

GATCGGAAGA GGGAGGAGAG GCAGTCTCTT NACAAAATAA AGTATTTTAA TTCATTTNTA 60
TTTATTAAAT NAAAAACAA TCCCATGGTG TCCCTNTTGT TTGGTGGAAC CTAATGACTG 120
TNGAAATAAA GTCCTGTNTT TNCCCTAAA 149

SEQ ID NO:5018

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05992

SEQUENCE DESCRIPTION:

GATCCAAAAA CCTCCACCAT AGAGACTGAT AAATTGTAGC TATTGAAGCT GTACTNCTTT 60
GTACATAGGT GCTTTGGGAG ACTCACTCTG ATTATTGTAA ATTNCTCAC TAGCTACCCA 120

ACATTAAATT CAAATAACAG AGAATTTCTA TTGTACAGCC TTGCAACTTT NCTTTAAGTT 180
TAANCTTTNC TNNAAAATAA AATTTTAAGT GGCAAAAATN ATTATTAGAN GAGAAAANGT 240
GTGCTCATT TTNANTATN 259

SEQ ID NO:5019

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05993

SEQUENCE DESCRIPTION:

GATCACCTGA GGGGAAAGGN TTGINTCTCT CCTTTCTGTT GGGNGAGGGG GATGGGGGAC 60
TTTTNTTGGT GGCTCCCACC CATATATCCC TCCTTNACCA TAGTACTCCC ACCCACTTCC 120
ATCACCCATC CAATAAAATG CAGCCAGGTT TAGCCTTTGG CTTTGGTCAC AAA 173

SEQ ID NO:5020

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05994

SEQUENCE DESCRIPTION:

GATCTACCTT CTAGTTTACT TGCTCGGGAG AAGAACTGA CTCGTTTTAT TTAGTGCCTA 60
TTTAGCGAGC CCAGAGTAAC GTACATTGT NCTGTTTTCA ATTTGTGCT ATCGCAAATC 120
ACAAAAAAC TGTTATCAAT TCACATTCAT CATCAGCAG AGACCCATTT CCTTGTGCTC 180
CTGCCAGCTC AGGNTATNAT GTTCTTTTT TCATGTTTGC CAGTCTGTGA GGTAAGGTT 240
CATATGCGGT TGTTTTAATT TGCAA 266

SEQ ID NO:5021

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05996

SEQUENCE DESCRIPTION:

GATCAAGGTG ATTCTGAAAG TTTTAATTTT TAATGTTGTA ATGTTATGTT ATTGTTAATT 60
GTACTTTATT ATGTATTCAA TAGAAAATCA TGATTATTA ATAAAGCTT AATTCTCAA 120
A 121

SEQ ID NO:5022

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05997

SEQUENCE DESCRIPTION:

GATCTAGTTG TATTCTCAT ACTAGCAATG AACAATTGGC AGTTGAAGTA AAAGCAA 58

SEQ ID NO:5023

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05998

SEQUENCE DESCRIPTION:

```
GATCGTAATA TCTCGAACAT TACATAGACA CTAAAAACCT TTAGTTGTAT TTCATCAAAA 60
ATCTGTTTAT GGGGACGTT GGTTCAAAA CATACTATGC TTTTNCITCG TGTATTTC 120
TATATNCATT TTNGTGTGTA TGTGTATGTC ACAAATATTG ATATGCCTGG TTGTTTATTT 180
TGGTNTGCTA TTATGCCTTT TTCAAAATAT AAAANTAAAC TNGTAANTNC TAACNAAA 238
```

SEQ ID NO:5024

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05999

SEQUENCE DESCRIPTION:

```
GATCGAGACC AGCCTGACCA ACATGGTGAA CCCTGTCTCT ACTAAAATAC AAAAATTAGC 60
TGGGCGTGTT GGCACACACC TGTAATCCCA GCTACTCAGG AGGCTGAGGC AGGAGAATTA 120
CTTTAACCTG CGGGGGGAGC CTAGATTGCG CTACTGCACT CCAGCCTAGG CAACAGAGGG 180
AGACTCTGTC TCATTTAA 198
```

SEQ ID NO:5025

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06000

SEQUENCE DESCRIPTION:

```
GATCTGTGT CAAGTTAACA GGAAGACTGC CCACAGATGA CACTGCATTT GTATCCCTGT 60
GGATGTAGAG TATTGGGAAG GCATTNTTT AGTTTCATGC CTCCAAACCA TGCATTGTCT 120
GTNATGTATC TGCCAGCCT TCTCAGAACT CAATGTTGTA CATTTTCCC TCTAGGACCT 180
GAATTGGTCT TGGAGGCAGC TTTAGAAAT CCTCTATGTA GTTCTGTCC ACATGCACTA 240
TATATNGGTT TCTCCNNGNN CCTCTCATGA ATCTGCTCGT TTCTCTACNT CTTGGCTACG 300
N 301
```

SEQ ID NO:5026

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06001

SEQUENCE DESCRIPTION:

```
GATCCTGGTA ACTGTTCCAG GATTGCTCCA GGTTCGAGAT GGTATTGCTA AATTTAAAT 60
TAAACAAGAG ACCCAACAAC AGCTTTTAAA GTGTCTTCTA TNGCATTGTA TTTNNNTNAA 120
CTTGCCCCAA TGATAGAAAA GTCTTTTGCT GAAATNATTT TNATGATTTT GGTTTATCGT 180
TTATAAANG GAAAAGANAT ATACAAACTT TGACTTTGGT GACTTTGTGA AGGTTTCTTT 240
AAGATGTGCA TTCCTTTCTG CTTGCNCTCT AGTAAAGGNT TTACTACCGG GAAAAAAAAG 300
```

N

301

SEQ ID NO:5027

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06004

SEQUENCE DESCRIPTION:

GATCANGAAA AAGACAAAAT CTNTCAAAGC CTTCAAAACC AGGAAAAGAT AAGGAGCCCA 60
GGAAAAGNAA AAGGTAAAGT TCGAAGAANT TTAACCATT TTNACTAGCG ACAGCAN 117

SEQ ID NO:5028

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06005

SEQUENCE DESCRIPTION:

GATCAGGAAT GGTGTGGATT GAGAACTTGT TACTTGAAGA AAAAGAATTT TGATATTGGA 60
ATAGCCTGCT AAGCGGTACA TGTGGGTATT TTGGNGTTAC TTAANA TTTNNGGAT 120
AAGAGAATTT CAGCAAAGAT GTTNTAAATA TATATAGTAA GTATAATGNA TANTANGTAC 180
AATGGAAAAN ACAATTATAT TGTAATAA TANTCTGGGCA AGCATGGNTG N 231

SEQ ID NO:5029

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06008

SEQUENCE DESCRIPTION:

GATCATGGAA CAGAATCACC CTCTCCTGCA TGTNTNTT TCTGTCTCCT GCTTNTCTGT 60
TCTTTTCCA CTTTCTCTAT GTGTGAGTTG ACTTGGCTGC CTGTAGCTC ATCGTCAAAG 120
CTGGTCCACG TGGGNTCAAC TTGGTGCTCT CACTCTCCTC CAGCATTGTT TTTGGCATCA 180
AAGCTAGAAT TAAA 194

SEQ ID NO:5030

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06010

SEQUENCE DESCRIPTION:

GATCNTTTT AAGAGCGTTT CCATACTATG NTTACATTC CATATTTNTA TGAATAATTT 60
TGCATTCAAT AAACAACCAG ACTCAGAAA 89

SEQ ID NO:5031

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06011

SEQUENCE DESCRIPTION:

GATCTTGGAG AGTTTCTCCT TGTGATTTTA GTTCATAAGT ATGTCACCTT TCATTTTATA 60
GNGTTCATCA TTGAGTAATG GATTAAGTGA AAATCCAGGA GTATCCATCT NCAGTTATGT 120
NCTGAGGTGA TAATNCATCC AACATATTTN TNAGCATAAA TATNANGCTT CAGN 174

SEQ ID NO:5032

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06013

SEQUENCE DESCRIPTION:

GATCTAAAGC AGCCCTTTTT ACAGTCTAGT TAGGAGAGAG AAAATAATTG CAAATATCCA 60
CTTAGAGGCA AAGAACAATT TTNATTATC AAAAAGGTTT CTGCACATTG TTGTGGCAAT 120
ATTGTATCTG TTTAGAAAAT GGGCTTTTCC AAAAGCAAAC AAAGATAGGT TCCTCAGGTG 180
ACCAAACTG AAAATCAATA TTTCCATGTT TCATTAATCA NGGCATAAAA TACAATTAAN 240
GCAAAATATT TTACATTAAA 260

SEQ ID NO:5033

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06014

SEQUENCE DESCRIPTION:

GATCTCTGGA GGTCGAGGCT GCAAGTGAGT CATGTTCTGT TCACTACACT NCAGCCTGGG 60
CGATAGAGTG AGAACCTGTC TCAAA 85

SEQ ID NO:5034

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06015

SEQUENCE DESCRIPTION:

GATCCAGAAC ATGACAACAG AGAGCTGCGT CCACAGGGAA CAAAGCCCTG ACCTNTCTCT 60
CCACATTACC CTTACAAAAA CAGGCCCTCC CCATGAGAGA GCTACACGGC AGGGGCAGAC 120
ACTGTGAGTA TAAGCTACTT TCCTCCCTGG AGTGCTCTAT GTGGGCAGAA CATGCTCTCC 180
TTGCCTCTCC TGGAAGGTGT CTTCTCTATG GCCTGGCTAG AGCTGNAAAA AAGGGACACA 240
CCCNACTTCG GTAAAAGAAA NTAGGGAAAG GCCATATACA NNGNCAGACT TTGTAGTTTA 300
TTTTGTATTT TTTNTAAAT NNTTTNCACT TTTACATTA ANGNAGATT GN 352

SEQ ID NO:5035

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06016

SEQUENCE DESCRIPTION:

GATCTTAATG GCAAGAAGGC CACAGAGGTA CTTTNCCTTN TTNAGCTCAG GAAAATATGT 60
CAGGCTCAAA CCACTTCTCA GGCAGTTTAA TGGACACTAA GTCCATTGTT ACATGAAAGT 120
NATAGATAGC AACAAGTTTT GGAGAAGAGA GAGGGNGATA AAAGGGGGAT ACAANNGATG 180
TACAGAAATN NTTCTCTGGC TGGNCN 206

SEQ ID NO:5036

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06017

SEQUENCE DESCRIPTION:

GATCTGGCCA TGTATATGGT AGCTGTGTTT TAATTTGAGA ATCTTGAGGG TAGAGCCACA 60
AATTTCAATT CTNACATTTT CATTGCAAAA GTGACTAGAG AAAAAGAAAT CAGCTTAAAT 120
GAGGTATTAA GTAATGTTTA GAGTCGTAGG TATTAAGTAG AATATAAATC CTTAGAAATT 180
GTCTTTATAC CTTCAAAAAT TATNCTATGC ATTTNTCATA GANCTGTGAT TACAANGNNG 240
TCTGACTACC ATGTCTTTAA ACATATGGCA TCTCTCATCT TTCCTTCCCT TATGGGGGCT 300
ACATTTNGTN CCATTTTCCA GNAGTAGNCT TTAAGTTNCC GGTGCCNNNC N 351

SEQ ID NO:5037

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06018

SEQUENCE DESCRIPTION:

GATCCTGAGA CTATNTGCAT GCTNCTNTCT AAATGATAAT TAANAGGAAA TTTCATGGAT 60
TAACCATGG GTTTAATGCA GCAAGGAAAC TTACAATGTC CCTNTATATA TAACATGCAN 120
CTTGTTTTGG N 131

SEQ ID NO:5038

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06020

SEQUENCE DESCRIPTION:

GATCCTNCAG GAGATTCAGC GTCTCCGCTT GGAACACGAG CAGGCCTCCC AGCCACCCN 60
TGAGAAGGCA CAGCAGAACC CCACGCTGCT GGCAGAGCTG CGGCTGCTGA GGCAAAGGAA 120
GNATGAAGT GAGCAGAGGA TGTCGGCCCT GCAGNAGAGC AGGCGGGAGC TGATGNGTCC 180
ANNTGGAAGA GCTGATGAAG TTGNCCNN 208

SEQ ID NO:5039

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06021

SEQUENCE DESCRIPTION:

GATCTGAGTG ACAGGGTCAA GTTCTCTTTG AAAACAGGAG CTTTTCAGGT GGTAACCTCC 60
CAACCTGACA TTGGTACTGT GCAATAAAGA CACCCCTAC CCTCACCCAC GGCTGGCTGC 120
TTCAGCCTTG GGCATCTTCA TAAATGGAAA 150

SEQ ID NO:5040

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06022

SEQUENCE DESCRIPTION:

GATCTGCTGG GTTTAAGGA GTGATTNCT TTCTNCCCCT TGAAGGGGAA AAAGCTATTT 60
CAATTGGTAC ATTTAAAGTC CCCCAACTAT GGGGAGGTAC CAATTCTGGA CANNNTGCCA 120
CTACAACAAC ACTAAACCTG AACTTTTCAA CTCCGTTGGT GGTGGGAGGC AGCGGGCAGA 180
AATTIACGT TGGCCACTGN CAGGTCTATT TNATATTCA AAGGAATATT GGGTGCTGCA 240
TATAGNACT GAAGGGGTCA ATGNATTAAA CCTGTGATTA GGTGNTTTC CTGTCATTTT 300
TGAGAGACTA AAATNGTGGG GGGGCAGATG TNCANAATAC CTGGTACANG TTTTAAAAA 360
NTGGN 365

SEQ ID NO:5041

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06023

SEQUENCE DESCRIPTION:

GATCTTNACC TTATTCAGTC AACTCCCTTT AAACCCCTGG CACTGAAAAC ACCACCTCGT 60
GTACTTACGC TGAGTGAAAG ACCACTAGAT TTTNTGGATT TAGAAAGACC TCNNNCAACC 120
CCTCAAAATG AAGAAATCCG AGCANNN 147

SEQ ID NO:5042

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06024

SEQUENCE DESCRIPTION:

GATCCGTCCT CATTTTATTG GTGATGATGA ATGGGAATAA AATNAGGGGG CTGTCTACTA 60
GAGCCTGGAA TAAATATGCT GCTTTGTGGA TTTTAAAA 98

SEQ ID NO:5043

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06025

SEQUENCE DESCRIPTION:

GATCTGTATG TNAATATCGC CAAGCAGGAT ATCATGTTGT CCCTGGCAAA CCTGGTGAGA 60
 CTCAACCAAG CCCTTTTCC CCCAAGCAAG AGGAAAATGG AATCTNTGTA TCAGTGTGGT 120
 TTTGATGACA CTGTTAAGTT TNTACTTAA GAAAATTGGT TTGAATAAAA TGCATAAAAG 180
 TTTATANTGC ATTNNATTGT NNANNTGN 208

SEQ ID NO:5044

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06026

SEQUENCE DESCRIPTION:

GATCTTTGCC CACCTCTTCC TCAGAGCCCC CACTGAGGGG CCGTAGCCCT ATCTAGGGCT 60
 GTGGAAGGAG CAGACTGGT CTAACCTCTC TCCCTCCTCC TGCCACACA CATCAAAAGA 120
 ATCTTCCCTA CACCCTTCTC TGCCTTTATT TTTTGATTG TGCAACTTGT AACTAGGTGT 180
 TTATGGAGTA AAGGAGAATG GAAAAAGAA A 211

SEQ ID NO:5045

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06027

SEQUENCE DESCRIPTION:

GATCTTGTTT ACAGCAGTGC TTTTGTGAAC AATTATTTAT TTGCTGAAAG NGCTCTTCTG 60
 AACTGTGTCC TTTTAATTTT TGCTTAGAAT AGAATGGAAC AAGTTTAAAT TTCAAGGAAA 120
 TATGAAGGCA CTCCTNNTT TTCTAAGAAG GAAGTTGCTA GATGATTCCT TCATCACACT 180
 TACTTAAAGT ACTGNGAAGA GTATCTGTAA ATAAAAGGGT TCCAACCTTT TAAANAAGNN 240
 GGAANAACT TTTTGGTGCT CCAGTGTAGG GCTATCTTGT NNANAAANTG TCAACAAGGG 300
 GGAAANGTAA GNCTGTCTNAG CTNGGGGATT GGTCACTTGN NTTAN 345

SEQ ID NO:5046

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06028

SEQUENCE DESCRIPTION:

GATCTTATAA ATTTCTGGG CAAGAGTGTA TGCATACAAA GTTTTCACTN TTGTGAAATG 60
 TAATTTNCT GTTTTGTCAA NGGGATGAGG TGATTGGAAT TGCTTTNACC ATGCTGCCTT 120
 TATTCTCAA CTGGCAAAC TAGCATGTTA GGTGTATTAA CCTCATCAGT CTTGAAGAAC 180
 ATGTGGCTCA TGAGTATAAC ACTTCTGTAG NGNNCNCNCCN NACANAAGTG AAGAATTAAC 240
 TTCTCCTNCA GAACAAGTGC ANTTCAGAAG GCAAGCTCTG CATTCTACCT TGNTTGAN 298

SEQ ID NO:5047

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06030

SEQUENCE DESCRIPTION:

GATCGGGGAG CCACAGGGTG TCCAGACCCA GCGGGAGCCG AGGATTCAGG AGAATCTCCC 60
 CAGTCAGCTT CAGAGGTGCC CACAGTNTGA GCTCTAGTGT CTNCCAGGTA GGGGGNCAAA 120
 GCGGNAANCT GNCCGGGCCT NGGGGGTGCA AGN 153

SEQ ID NO:5048

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06031

SEQUENCE DESCRIPTION:

GATCAACATT CGCAATGCCC GGAAACACTT TAAGAAGCTG GAGAGAGTGG ATGGCCCCAA 60
 GCACAGTCTC CTTATGCGTT GAATATTGCC AAATNCTCTT NCTGAAAATC CTGAATTGCC 120
 TTTTNGTTT GCATCCTTTA TTTTNAATAT TCATAATGTC GTGTGCTTAA AAGTGGGCTT 180
 TGAAGTGTGT GCTGCTTACT CCTNTCATCT TTCTCCCCGC TTCCCAGTC TTAAACATT 240
 GGACGNTATT TACTCAGCTA CCCAGTAGAG CTTGAAGCTG ACCTTTCTGA GAAAGTTGGG 300
 TATGGTGGTA ACACTTAAAG TAGGTGGTTC CGTGTGGTGT TCTTCANTNN N 351

SEQ ID NO:5049

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06032

SEQUENCE DESCRIPTION:

GATCAACAAA TTGCTCAACC TGCAAAATCT TTGATTAGAC TTAGCCAGCC CATCTGGCCT 60
 GCTTTGGGTT TAAAAAATAA AAAAANNTTT TTTTAACCNC ANAANTGGAA AAAGGGGAAG 120
 GGNN 124

SEQ ID NO:5050

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06034

SEQUENCE DESCRIPTION:

GATCATGACT ACTGGGTTGT CATTCAATG GACAGTGCTA TGAAATAAGT ATTTTGGAAA 60
 NCAACGGAAA TAGTTTATAT CGATATTTCT GATTCAAATT TANCCATCCA ATTGTTTAAT 120
 TAACCTTACT GATTTTTTAC CTATATCACT TTNCTCTNAC ACTGNAANTA TTAGTTCTAN 180
 TAGCATTATG NCANTTACCT ATGTTGCTTT ATGAANGN 218

SEQ ID NO:5051

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06035

SEQUENCE DESCRIPTION:

GATCAATGCT GGCTTCCACG CCTGANTTCT ACCAAGTATG CCACACCAAA AAGGATTATN 60
 AAGAAATTGG ACCTAGCATT TNTCGTCACA ATCCAGTGTT TGGAGTCATG TCGTAAAATT 120
 GNCNCCNN 128

SEQ ID NO:5052

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06036

SEQUENCE DESCRIPTION:

GATCTCATTG AGATTCCAAA GAGAATCATT TACAAGTTAA TTTCTGTCTC CTTGGTCCAT 60
 TCCTTCTCTC TAATAATCAT TTAGTGTTC TCAAAGAATT GTCTACATTA CCCATCTCCT 120
 CTTTGCCTC TGAGAAAGAG TATATAAGCT TCTGTACCCC ACTGGGGGGT TGGGGTAATA 180
 TTCTGTGGTC CTCAGCCCTG TACCTTAATA AATTTGTATG CCTTNTCTCT TAAA 234

SEQ ID NO:5053

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06038

SEQUENCE DESCRIPTION:

GATCTGCAAG GCATAGGCAA GCCTCTTAGA GAATCAGAAA AGTGATTGG AAGGAACTTC 60
 AGCTGTTACT ACTTTGTTTA AGCAAATCAA ATGCTGTTCT TTAATGTTAC TGGACGTTTC 120
 AATTAAACA CAAGAAAACC TGAAG 145

SEQ ID NO:5054

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06039

SEQUENCE DESCRIPTION:

GATCAACTGA AGACCCCAA AGGCCCTAC TTGATGGTTT TGAGGGGCAA CATTGACTCA 60
 TTTGCCCCNT CCCTCTCGGA ATGTTGGACA AAGGGAATAA AATTGGGGAT ATGTCTACTT 120
 CAAA 124

SEQ ID NO:5055

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06040

SEQUENCE DESCRIPTION:

GATCTAAAAC ANCTTCAGAC TACCTANGAA ATANTNNAC CAAATAAGAA ACAGCACTGT 60
 GGAATAAAAT ATACCATTGT GAACATATCT GATGCTGCAA TGAAATGTAA AGTTCCTN 118

SEQ ID NO:5056

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06041

SEQUENCE DESCRIPTION:

GATCTCCTAC TCCATCCAGT CCTGAGGAGC CTTAGGATGC AGCATNCCTT CAGGAGACAC 60
TGCTGGACCT CAGCATTCCC TTGATATCAG TCCCCTTCAC TGCAGAGCCT TGCCTTTCCC 120
CTCTGCCTGT TTCCTTTTCC TCTCCCAACC CTCTGGTTGG TGATTCAACT TGGGCTCCAA 180
GACTTGGGTA AGCTCTGGGC CTTACAGAA TGATGGCACC TNNNNNAACC CTCATGGGTG 240
GTGTCTGAGA GGCCTGAAGG GCCTGGAGCC ACTCTGCTAG AAGAGACCAA TAAAGGGCAG 300
GTGTGGAAAC GGCAAA 316

SEQ ID NO:5057

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06042

SEQUENCE DESCRIPTION:

GATCTATTTT TTTNCACTTG TATAACTTTG NAATAAATNC CTCATCCCTT AGACTAAGAG 60
AGTGGGTGTC TGTGAAAATN GTNTTCTCCT TCATAATACC TAAATN 106

SEQ ID NO:5058

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06043

SEQUENCE DESCRIPTION:

GATCGAATTT AAAAGAACAA TGGAACCCTG ACTACGTTTC AACAAAAATA AAAGTNGTTT 60
TTTTCCCTCC TAAA 74

SEQ ID NO:5059

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06044

SEQUENCE DESCRIPTION:

GATCTCTGGC GCTGGCAGAA GCAGAATCCT TCAGGCTTTG GCANGCAAGC NTGAGGACCC 60
TCCCCTACCA AGGACCAGGA AAAGCAGCAG CTGCCTGCTC TCCAGCCTNT GGCAGGAACT 120
CAGGGCCCTG GAGCTGCTGG GGCCAAGCCA AGGCCTNCCC TACCTCAAAC CCCAGCTGGG 180
CCCGNTTAGC CCACCAGGCA TGAGGCCAAG GGCTCCACTG ACCAGGAGGC CGAGGTCTCT 240
AACTCTTATN TTCCACAGGG TCCAAGAGTT CATCAGGACC NNNAAGAGTG AGTTNAGGGG 300
GGGCAAGGNT TCTNGNAACA AAAGN 325

SEQ ID NO:5060

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06045

SEQUENCE DESCRIPTION:

GATCTGCCTN TAAAGCCAGT TTAAGAAGCA CTNATGANAA CACCTGGACT GTGTATAGNG 60
ATTGCACATT CCTTATCCTT CAGCTNCAGG ACAGGTGGAG CAAATGN 107

SEQ ID NO:5061

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06046

SEQUENCE DESCRIPTION:

GATCTCAGAG CATTTCAATT AGGGATGCTC AAACGCAACT TTTTCTACTT CCCCATTTC 60
GGTGTGAGAT GTAACCCACC TTNACCATAA ATTGGCTTTN NATAGTGCTA AA 112

SEQ ID NO:5062

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06047

SEQUENCE DESCRIPTION:

GATCACAACA TACAAATTCA ATTCAGTGCA TGCTTTAGGT GTTAAGCATG AGATTGTACA 60
TGTTTACTGT TAGGTCCTTG CATCTGTGGT GCTAGGTGAG TATGAGAAGA TGTC AAGGAC 120
TGGACGTATT TTGTTGCCTA AAAAAAAAAAG GNTGTTTGTN GCGGTTTAA ATATGCTTAT 180
TTNGTGTGTC NCNNNCTACC TTTTACACAC TGTGCTTTG TGGGTTTGT TNGNATGTGC 240
GTGTGTTATA CAGTNGTTAA ATTTCCNTGC AGAAAAATAA ATGTCCNGAA TTCTCAA 298

SEQ ID NO:5063

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06048

SEQUENCE DESCRIPTION:

GATCTCCCAG TGAGCCATCA CGATGCCCGN TTTCAAATAA ATNTTAATAT TGTCACCAGA 60
AA 62

SEQ ID NO:5064

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06049

SEQUENCE DESCRIPTION:

GATCTNCTGC CATGATGCCT ATTTGGTGTN TTTCTAATTA AAATGAAATC ACAA 55

SEQ ID NO:5065

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06050

SEQUENCE DESCRIPTION:

GATCGCATCA TTGCACTCTA ACCTGGGCAA CAAGAGCAAA ACTCCATCAA A 51

SEQ ID NO:5066

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06051

SEQUENCE DESCRIPTION:

GATCTGCTGA AAGGNAAGCA AGAACTATAA GGAGGNTGTG TAGTTGCAAA AATGGCTCCA 60
TCGGTAACTC AAGCTTCAGA ATGTTATGAC ATACAGAAAA TCAAAGATGC TGTGTCTTAG 120
CATTGAGTAA TATGGGTGGT GCTGTCTGGT CAGATTCAGT NAACTGTTCA GAACAAAATT 180
NCCTCTGAAA TNCNGTTGAG AAAGNCTGTN 210

SEQ ID NO:5067

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06052

SEQUENCE DESCRIPTION:

GATCAAGTCA GCATTTGGGG TCGGGATTTG GGCAGGGAAC TTTGGGGTGC AAATATCTGG 60
TGAAACCACC AGAGAATTN TTTGTCAAAG TGACATGTAT AATTTAGTT GAGACGTGTT 120
TGTGTATATA TGTGTATTTG CCTTTNTTTA GTAGCACGGT TATTTGCTAA AATAATTGTC 180
AAAAAATTGC TCTGTCGGTC GGTCTTTGAT N 211

SEQ ID NO:5068

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06053

SEQUENCE DESCRIPTION:

GATCTAGAAT CTTGTCCTCA GGCTTCTAGG GGNTTATCTG AGTCTTTTAT CTAAGACAAA 60
TGCAACAGTT TTCTTTTCAA ATGCTCAGAA AAATAGTGAT GATGATGATG ATGATGATGT 120
TCATTGTAT ACATTACAT GCAACCACAG CATTGTTTT ATTATAATAC CTTAGCAATA 180
ACTAATGAGA ACATGTTAGG TGATGTTAAA TAAATAATT TTTCCCAAA 230

SEQ ID NO:5069

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06054

SEQUENCE DESCRIPTION:

GATCGCACGG ATGCAGCAGG AAGACCAGGA GGGGCCGCCT ACGTAGCCCC AGCTCCAGCC 60
ATCCACCCCN CAGCCCTTTN CTNCAACGTC ACCANTAAAT TTNTTTTN 108

SEQ ID NO:5070

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06055

SEQUENCE DESCRIPTION:

GATCACTGTT AATGATTTGC CTGTGGGACG CTCCTGGGAT GAGGCTCTGC GGCTGGTCCA 60
NNNNTTCCAG TACACAGACG AGCATGGGGA AGTTTGTCCC GCTGGCTGGA AGCTGGCAGT 120
GACACGATTA AGCCCAACGT GGATGACAGC AAGGAATATT TNTCCAAACA CAATTAGGCT 180
GGCTAACGGA TAGTGAGCTT GTGCCCCTGC CTAGGTGCCT GTNCTGGGTG TCCACCTGTG 240
CCCCCACCTG GNTGCCCTAT GCTGACCCAG GAAAGGCCAG ACCTGCCCTT CCAAACCTCA 300
CAGTATGGGA CCCTGGAGGG CTAGGCCAAG GNCTTTTTTN 339

SEQ ID NO:5071

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06056

SEQUENCE DESCRIPTION:

GATCACAACC TCANCNAAGA CCACGANGAA GCCCNAACA GCCACGCCCA CGACTGCCCG 60
GACGAGGCCG ACCACAGACG TAAGTGCAGG TAAAAATNGA GN 102

SEQ ID NO:5072

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06057

SEQUENCE DESCRIPTION:

GATCGCCTTA ATACCAGAAA TGATTAGAAG TGCTGATTTA GATTCAACAA ATACCATATG 60
TCCTTATCAT TTTTGTGAAG AAGAAATTGG TTAAGTCCTA ACTTTCAATG TGTACCCAAA 120
TACTTGTATT TTATGCTTTT NATAAATGT AATTTTCAGC ATTANTACAC ATCCGATTAT 180
GCCTTATTTA TATATGGNGG ANTAAAGGTT ACCATGTTTA TACCTGTAA A 231

SEQ ID NO:5073

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06059

SEQUENCE DESCRIPTION:

GATCTTGTT TCATGTGTT TTGAAAGTGT TATTGTTTAA AAAATGAAAA AAGCATATNT 60
 GCTAAAGAGC TGTCAGGTTT TCATTACTGA CTCTGTANAA TACACTGNTC TTTGTGTACT 120
 GTGTGTTATT TTGCCAGCT NGCTGCATTA GCCTTCAAAN GTATTTGGGA AACCTNAAGG 180
 ATGAACCTAC AGTTTCTNGC AAAGGTACCA TTNCCTTTCC TGGGGGTANT TTNGGTCCCN 240
 GTNAACTGGN 250

SEQ ID NO:5074

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06060

SEQUENCE DESCRIPTION:

GATCCTCGCG GGCCTCGGAG AATTCCTCCA CTGCCATGCC CTCCCCACG TACCAGTGCA 60
 CTAAGGCGCA CTTGGCCGAA CTTATGGTCC AGGCAGGCC AGGCCTCCGT GATGGCCGTG 120
 GTGTGCTCA GCATGCACAC CGNCCGCTGC ACTTTGGCCA GGTCTCCAC AGGGACCACC 180
 GTGGGGGGCT GGTAGTTAAT NCCCACCTGT CAGAGATGGG CAGCATAGAA TGAAGTTTAT 240
 ATTGGGCTCA GAAATGGGGA GCTCATTAAA AATCAGAGCT TGTGGNACCA GTTNCAAA 298

SEQ ID NO:5075

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06061

SEQUENCE DESCRIPTION:

GATCACTGTG TCAAATGGAT GGGAAATNTT ATNTTAATAT AAACAGTAAA ATAGCATTGT 60
 TTCACTTGC AGCTTTNAAA 80

SEQ ID NO:5076

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06062

SEQUENCE DESCRIPTION:

GATCTGTATG TNCAATATGG TAGCTACTAG CTACATACAT CTATGAGCCA GACACTTAAG 60
 CACTTGANGT TTGGCTACTG CACATTGACA CATGGTGTTA GTAAAANCAT AACTGGATA 120
 CACTGGATT TTGNCTTAG TATGGAAAA TATATTANGT ACCTCANTTT AAAAATACTT 180
 ATTACATGTT AATATTTTGG TTGTANNNNN 210

SEQ ID NO:5077

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06064

SEQUENCE DESCRIPTION:

GATCATGTTG TATTNATTT TACTTATTTT TTTTACATTT CCCAAGGCTC TGTCATCCAC 60

CTTTTCATTA AATCATTCTA CCAATCTCAA A

91

SEQ ID NO:5078

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06065

SEQUENCE DESCRIPTION:

GATCAATGTA AATCCTCACC TGCCCTTTGA AGAGCCAATA AGGGCATCTT TGTCTTTAAA 60
TACAGCAAAT GTTATTCAGA TTTTGTACTT GTCTATCTGT TTACCTCAGT GTAGATGATA 120
TGAGGATGGN ATAACATATGT AAATTGTTTT TGAAAATAAT TTGTTTCCCC ACAACTTTTG 180
AAGGTTTTAT TTGNGTTTGT TATTACTAGT TCAGTCCCAA ACTNACCCTG TCCTTTTCAG 240
AGAGCTAATG GCCATGCTTT NCTTCAAAGG AAAGAATAAT TNATTTGGAA TGANAGTGGG 300
GATTACTTTG CATAANN 317

SEQ ID NO:5079

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06066

SEQUENCE DESCRIPTION:

GATCTTTATT CTAACCTTTT TTTGTAAAN ATATCTATTG ATTTCCATAT GCAATAAACC 60
TTTTTTTCAG AGAAA 75

SEQ ID NO:5080

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06067

SEQUENCE DESCRIPTION:

GATCGCACCA CTGCACTCCA GTCTGGCGAC AGAGTGAGAC TACATCTCAA AAAAAAANGC 60
CGCAATTTTN CATTGNTTC ANCAGANCTC TGCCATTCTA AACATTTCTA AACTTTTACT 120
CTCAATTNCT GTACTTAAN 139

SEQ ID NO:5081

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06068

SEQUENCE DESCRIPTION:

GATCTCATTT TCAGTTTAAG TAACTNCTGT TACTTAAGTG ATTGCACTTT TCTCAAATTG 60
AAGTTTAATG GAATAATAGT TCTCAGGATA GTATTTTGTA AATAAAGATG GNCTTGAATA 120
TGAAA 125

SEQ ID NO:5082

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06069

SEQUENCE DESCRIPTION:

GATCCTACCA TGGCAAGAAG AGCTTCGAGA CTTTCTCTCA CCGCCGCTCT TGCCTGGTGA 60
GGCCTCTAAT GAATGATGAA GGCCTGAAGG TCAGATACCC CCCGAGCCCG GCCAAGATGA 120
CCCAGCACTG AGGAGGGGTT GCTCCGCCCTG GCCTGGCCAT ACTGTGTCCC ATCGGAGTGC 180
GGACCACCNT NACTGGCTCT CCTGGCCCTG GGAGAATCGC TCCTGCAGCC CCAGCCCAGN 240
CNCANTNCTA TGNTGACCTG CTGACCTGTG CACACCCNAC TTTN 284

SEQ ID NO:5083

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06070

SEQUENCE DESCRIPTION:

GATCTAACCA TGACCTGTTT CACGTCATTC ACATTCAAAA TGAATGAAGG GATGANCATT 60
TTCTCTGGTC ATTTTTTATT ATTTATACCC TTTTGCAAAT NCTAGTAGAG AATGAAGTGG 120
AGGAATAAGT TATAAATGAA CAGTGGCTTA TGACTCCAAG AGTTAATCGT GTTATTTTGG 180
TAGCTGTCTG TGTAGGTGTG CATGTNGTTG CGAGTTTGTA TTGNGNTTTA CAAGCAAAAN 240
TTATATNATG NTTCAACTTT CTGGAATGC TTNTAATTTN 280

SEQ ID NO:5084

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06071

SEQUENCE DESCRIPTION:

GATCATAATA TGAATNTCCC ACTTATTAAT AGCCTTTTAA TAAATATATA ATTAATTTCA 60
AA 62

SEQ ID NO:5085

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06072

SEQUENCE DESCRIPTION:

GATCTATAAT CACCAGTGCA CTCACCCTG GGTGACAGAA TAAGACCCTG GCTGAAA 57

SEQ ID NO:5086

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06074

SEQUENCE DESCRIPTION:

GATCTCAGGA TTNAAGCACA GTGCCTGGCA TACAGCAGGT GCTCAATAAA TACTTATCAA 60
ATTGGAAA 68

SEQ ID NO:5087

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06075

SEQUENCE DESCRIPTION:

GATCAAGGTT TAGTTTAACT TCCACTGTTA AAATAAAGCT TACATAGTTT TCTTCCTTTG 60
AAAGACTGTG CTGTCCTTTA ACATAGGTTT TTAANGACTA GGATATTGAA TGTGAAACAT 120
CCGTTTTCAT TGTTCACTTC TAAACCAAAA ATTATGTGTT GCCAAAACCA AACCCAGGTT 180
CATGAGTATG GTGTCTATTA TAGTGAACAT GTACTTNGAG CTTATTGGTT TTATTCTGTT 240
ATTAGATNTT TCAGGGTGTA AACANGNNN 269

SEQ ID NO:5088

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06076

SEQUENCE DESCRIPTION:

GATCGGCAGG GCAGGAATCT GAGCGCTGGC CCCGTGGTGA GGCCATGTTT TCATAATCAG 60
GCTCCAGCCA GAAAAATAAG AAACACCGCA ACAGGCTTCA GTATCAGGGC TGAAACTGCT 120
GGATGANTAA ACTATTTATT AAAAACGGAA A 151

SEQ ID NO:5089

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06077

SEQUENCE DESCRIPTION:

GATCTTGGCT TAATTTAATG TATTAATCTG TTTGTGCAA CATAGTACCA CCATTAAAA 60
ATGTTAGGGA GATGAGTTGC AGTTTTTATA ATAGATTTT TTAAAGTTT GGTATTGTAA 120
ANCATTCACA CCTCTGTCCC TCAAANTGN TAATTACGGT TAAAGTGCAG TCATTTGTGG 180
NTAGAATCTT GTTTNGTTGC TNCCATTATT GGGGTCCNCC NAAGGAATTG AGGAGAGGNC 240
CGAATAGAGC CCAATTCNTA TAANGAN 267

SEQ ID NO:5090

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06078

SEQUENCE DESCRIPTION:

GATCTCAGGG AAAAATTTTA ATCACTGTGT ATAATGATAC TGAACCTTGA TTAATAACAG 60

AAATTCAGGA TGTAAGCCA CAGAATGGGN TTTATTAATG TGGGATACCT CAGACTGTTT 120
GTTTTCTTTC TGGGNAGCAA AGTGTGTTCT ATAATGAATA AATATAGAGT GGTTTTTAAA 180

SEQ ID NO:5091

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06079

SEQUENCE DESCRIPTION:

GATCTTCCTG GNACCTGAG GGTGTCCTC CAGCAGGGGC TTCTTNGACC CCTGTCTGAG 60
GGGTCGCGTC TTAGTGGGCG GGATTCTTTT CCCTTTGAAT AAAAATGGAT TCAAACCCAA 120
A 121

SEQ ID NO:5092

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06080

SEQUENCE DESCRIPTION:

GATCTGTNTT GTTCCTGCAG CAAAAATCCT CTATGGACAT AGGAGGTGCT GTGTCCCATG 60
CCCTCTTGCC CTGNCAGTGT CCCATGGGCC CCCTTCTGCT CCCTGCCCCC TCCCTGCTAC 120
TGCTGATGCA CTGTCTCTC CCTGCAGCCC CTGGCTTCN AGCCTTCCTC CTGACCCCTT 180
CCAACAGCCT TGGAACCTCA GCTGCCACCA CCCTNTGGGT CGGACACTGG GACCCANTGG 240
NCCAGTCTTG GNTGCTGNTT ACCCCTAGCC TTGATGNCTG CCCAGGGGAC CCCNAGCCCN 300
CTTNGTTGN CNTGCAGCTT TAACAGAGTG AACCATGTGT ATTGTACAGG CGGGGGTTGT 360
TAATTGNAGA AAACNNAN 378

SEQ ID NO:5093

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06081

SEQUENCE DESCRIPTION:

GATCACACCA CTGCACTCCA ACCTGGACAA CAGAGCAATA TTGTGTCTCA AAAAATAATA 60
AATAAATAAA TAAATAGTAA A 81

SEQ ID NO:5094

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06083

SEQUENCE DESCRIPTION:

GATCACCCGG AAGTTCAGGC TGAATTCTGA AGGCAAACTT GAGCAGACGG TCTCCATGGC 60
AACCACGACA CAGCCAATNA CTCAGCATCT TCACGTCACC TACAAGAAGG TGACCCCGTA 120
AACCTAGAGC TTCTGGAGCC CTCGGGAGGG CCTGGCTACT GTGCCTCAAC GGTTGGGCTC 180

CTCAACAGAC AGTCCCTGCG GCAGAAGTGG GTGTGGCCGT GAGCCTCTGC AGGCTCAAGA 240
 GTGTTGTCCA GATGTTTCTG TACTGGCATA GAAAAACCAA ATAAAAGGCC TTTNTTTTA 300
 AA 302

SEQ ID NO:5095

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06084

SEQUENCE DESCRIPTION:

GATCTGACTT CAGTTGTGCA GATNACAGCA TGATAAATGA GTCGGGACCA TCAAA 55

SEQ ID NO:5096

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06085

SEQUENCE DESCRIPTION:

GATCAACAGA TGCTGGCAGA AATGGCTGTN TCCCTGGCCT TGAGAAGCAG ATNCAGCTCC 60
 CTGTCCCCAG AGGCCTACAG TCATATGGTA CCNCCACAGN CTCGCTTGGN TCGCTACAG 120
 GAGGCGGCGT CANGGAAGCT TNCTN 145

SEQ ID NO:5097

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06086

SEQUENCE DESCRIPTION:

GATCTCATGA GAATTCACCTC ACTATTATGA GAACAGCATG GGGAAAACCN CTCCCATAAT 60
 TCAATCACTN TCCTCTCTCC ACACGTGGGG ATTACAATTT GAGACAAAAC CTGGGTGGGG 120
 ACACAGAGCC AGACTATATC AGGGGGCTTA TGTTTATCCA NTTGTNATGG CCTCACTTNT 180
 TGNAAAGACT GTNCTNNCN 199

SEQ ID NO:5098

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06087

SEQUENCE DESCRIPTION:

GATCACAGAC TGTAGAGTTT TGAAGAGTCA CTTTTATTTT NAATTATTTN ACATATGCAA 60
 CATGAAGAAA TCGTGTAGGT GGGTTTTTTT TTNAATAAC AAAATCACTG TTAAAGAAA 120
 CAGTGGCATA GACTCCTTCA CACATCACTG TGGCACCAGC AACTACTTCT TTATATTGTN 180
 CTTTCATATCC CAAATTAGAG TTTACAGGGN CAGTCTTCAT TACTTGTAATAAANTATG 240
 ANTCTCAA 249

SEQ ID NO:5099

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06089

SEQUENCE DESCRIPTION:

GATCTGCAGT CCTGCCTCTG CCACAGTCTC TCTGTTGTCC CCACATCTAC CCAACTTCCT 60
GTACTGTTGC CCTTCTGATG TTAATAAAAG CAGCTGTTAC TCCCACAAA 109

SEQ ID NO:5100

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06090

SEQUENCE DESCRIPTION:

GATCACGGAC GTGCAGCTCG CCATCTTCGN CAACATGCTG GGCCTGTCCG TCTTCTTGCT 60
TGTCGTTCTC TATCACTACG TGGCCGTCAA CAATCCCAAG AAGCAGGAAT GAAAGTGGCG 120
CTTTCTCCGN CCCAGGGTTC CAGGACATAG TCTGAGGCAA GATGGAGGGT ATGTGGGGCC 180
TTCACACTTC ACTTCATCCC TTCTACCCAT CACANCATAC AAAGCANCTA CACCTGGATT 240
TTTCCAAACA ACTTTTATTT CCTCAGAGTC NGNNGNAATN CTATGGNNCA AGANGCTGNC 300
ACTGAATAGG GCCNAGTATA GGGGCTTGCT TTTCTACTCT N 341

SEQ ID NO:5101

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06091

SEQUENCE DESCRIPTION:

GATCTGGTAC CGCAGTAGCG CCGCCGCCGC CGCCGNCGGA GCCTGTCGTC GTCCTGTCCC 60
CAGCCTNCTT GTGTCCCGTG AGGTTGTCAA TAAACCTGCC CTCGGGCTGC CGGCAAA 117

SEQ ID NO:5102

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06092

SEQUENCE DESCRIPTION:

GATCCAAAAG GACTCATCTA AAACACAAGT TGGGTAGAGG AGATAGGTGA GTACTATTAT 60
ATTATGTTCA TGGAAAATNA GTTCATGGGC TTTCCTCTAA TTTTATTTT AAAAATAAAT 120
GTAAATATTA AATAAAATTT TTAAATGAA A 151

SEQ ID NO:5103

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06093

SEQUENCE DESCRIPTION:

GATCAGCTTT TAATATCTGT CAAATAAAAA TTGAAATTGA AGATGGTATA TAAGATTTC 60
GNAATAAAC TACTCTGAAT ACTAAA 86

SEQ ID NO:5104

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06094

SEQUENCE DESCRIPTION:

GATCTAATCC GTNTCCACACA TGTCCCAGGG AATCCNAGGT CTGCCCTGAG CTCCTGTGT 60
CCTTGGNAAA GTCGGTTAAT CTCTGGGCCT CACTGTCCTC ATCGCTGAGC TTGGGGACTT 120
GTAACANATG ATTTCTAAGT ATCTNCCAGC TTTGANTAGA GCATTTGTNT TGGGTGGCCA 180
GGCTTAANGT TTAAAGGCAT AANGAAAANN 210

SEQ ID NO:5105

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06095

SEQUENCE DESCRIPTION:

GATCATATTG GTCATGTCTA TTGGTGTATT ATTCAGTAT CACCAATGTT TTCAGAAATA 60
CAGTACTAAT TCATCATTAA ACTCTTTGAA GTTAATATTT TCCTGCCTTC TAACTTATAG 120
ACTCAACTAT GTATCTGTAG TTTTGGGAA TGGGGTGGTG TTTTNNCTT TGTGTTGGGA 180
AGTTATTGAG AAAACCTATA TAATANAATT NAANATTATA GTTTTAAAAA AANNNCANNN 240
NN 242

SEQ ID NO:5106

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06097

SEQUENCE DESCRIPTION:

GATCTGCCCT TGGCCTCCCA AAGTGTCGGA ANNACAGGCA TGNGCCACTG AGCCTGANCC 60
ACTTTAGCTA TTTTAAAAA TAGGACCTAT TGTTTGGAT TACTATCTGA GAATTTTCATG 120
GATTCACCTC TGGGTATAGG AGNTAAGAAT ACGTTTAATT CATAACTTTT ATATTANCCA 180
ATATAGTAAA AAAATAAAGC TCACACATAC ANAANCAAA 219

SEQ ID NO:5107

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06098

SEQUENCE DESCRIPTION:

GATCTATTTT TTGGGCTTTT AATATTCTGT TCCATTGACC TATNTCNCCT NTCTTTTACC 60
AATACCGCAA CATCTTGGTT ACTGTAGCTT CACGGTAAGT CTAAAACTT GGATATTGTC 120
AGTCCTCCAA CTATGTTCTA CTCCTTCAAT ATTGTGTTGG TTATTCTGAG TCTTGNGGG 180
TCTCCATATA AATNGTAGAA TTAGAAAAAA AANNGNGGGG GGGANN 227

SEQ ID NO:5108

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06100

SEQUENCE DESCRIPTION:

GATCAGTTTG GACTCTGTAA CTCATAGGTG CATTCTTTT TTCTTTGGTG TCTCACAAAT 60
NACCCAATTG TTGAATAAAA CTATAAATAT GTTAATACCA GCTTTTCCA ATAAATAAC 120
AAATGTTACA TCAA 135

SEQ ID NO:5109

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06101

SEQUENCE DESCRIPTION:

GATCTNATGG GTTAAAAAGN GCGGCATTTT CCTCCNCTTT CTCCCTCTCC TGCACCATGT 60
TAAGATGTGC CTGCTTCCC CTTTGCTTC GACCATGATT GTAAGTTTCC TGAGGCCTCC 120
CCTGCCATTC AGAAGTGTGA GTAAATTAAA TCTCTTNCCT TTATAAA 167

SEQ ID NO:5110

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06102

SEQUENCE DESCRIPTION:

GATCTTCTGC CACCATCAGG GNCAAACGGG TGCAGGAGGA AAGTCACTGA TGCCCAGATG 60
TTGCTNCCT GCACAGCTAC AGGTCCTTAA NNAAGTNT N 101

SEQ ID NO:5111

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06103

SEQUENCE DESCRIPTION:

GATCTGTGGC TACTTTCACA CCACAACAGA GTACCATGGT TCTGACAGAG ACTAGGAGAC 60
ACAGTCTAAA TGACTTCTGA CCTGGACCTT TACTGAAAAT CCTGCCAATC ATTCTGTTGG 120
CAAGANTGAT GTATTACTTT TAGCAATAAG AAACAAGTAA CCTTGCAGA AA 172

SEQ ID NO:5112

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06104

SEQUENCE DESCRIPTION:

GATCTCCAAA GCTGTCCTCT GCGTCCAGG AGTGCCTCTT ATGTGAGTCC TAATAAACTC 60
ATCTATTAC CAAA 74

SEQ ID NO:5113

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06105

SEQUENCE DESCRIPTION:

GATCTNTTCC CACCCATAAA AAGCCCAGAG AACAAAAAGT TGGCCCAGGA AATGCAATTN 60
GGAAGCTGAA GAAGATTATA GTATTTNTNG CAGTCAAGAT TTGGAAAGTT ACCNACTAAG 120
AAGCTACAAT ATNN 134

SEQ ID NO:5114

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06107

SEQUENCE DESCRIPTION:

GATCTTGAAA TNAACCTAAG ATTTTCCTGG GGAAATGTTT AGATACAGTT TTGTGAACTG 60
TAAATCAAAA TACCTTTTNC TACAGTTTAT CTTTNATNTC CTGCAAATTT AGGAACATAT 120
TTCTCGTTT NCACATTGAA TCTTAAGTTT AAGCNCCTCA TTTGGNATTT NGGCAATATA 180
TGNGAN 186

SEQ ID NO:5115

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06108

SEQUENCE DESCRIPTION:

GATCTTTNTG ACTAGAGTTA GTGTCCTAGG AAAACCAGAA CTCAGAACTT GCCTCCATGG 60
TTGAGTAACA AGCTGTACAA GAACCCCTTT TATCCCTGGA AGAGGCTGTG TATGAAACCA 120
ATGCCCAGGG TTTGAAGGGT GTTAGCATCC ATTNCAGGGG AGTGTGGATT GGCTGGCTCT 180
CTGGTAGCAT TTTGTCCTNA CACACCCATC TACTATGTCC AACCGGTCTG TCTGCTTCCC 240
TCACCCCTTG CCCAATAAAG GNCAAGNNCT TCAAA 275

SEQ ID NO:5116

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06109

SEQUENCE DESCRIPTION:

GATCGAGTGG TCTGTGTTCC TATTGCTGGT GGGGTGATAG GGTGGGCTAA AAACCATGCA 60
CTCTGGAATN TTTTGTATTT TCTCCCAGTA AAGCTTTTCT TCTCCCGAAA AAAAAAAGA 120
AA 122

SEQ ID NO:5117

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06110

SEQUENCE DESCRIPTION:

GATCACAAC TACAGCCTGC AGGCCAAATC CAGCCCACAG CCTGTNTTTG TAAATAAAGC 60
TTTGTGGAN CAAAGCCACA CCCCTTAATC TAAA 94

SEQ ID NO:5118

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06111

SEQUENCE DESCRIPTION:

GATCTGAATC CAGNTCATTT GAGGGAACCC CCAAGGTTCT CTGGTTGTGG CCTCTTGAAT 60
AAACCTCTCA CATTTGGAAA 80

SEQ ID NO:5119

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06112

SEQUENCE DESCRIPTION:

GATCTATTAT CTAGTGCAA AGCCTGGCTT TGNTTGNAA TTTTGTA AAA ATTTCATGGC 60
ACCCAAGGTT TCTGNTTCTG ACCCAGCAGT GGTCTGAAG AGAGCTGATG GCAAGTNTTG 120
TAGTCATTTT GATTTAATT GAAGGGTGAG CATAACCTTG TGAACCAGCA CTAGCTTGTT 180
CCAAGCTGGA ATTTATCTAA TCTATTTTGG TGTTTAAAAA AGCTGTACCT ACCAAATAAA 240
TAAATAGTTT ATAAATGTA TTACTTAAGG TAAA 274

SEQ ID NO:5120

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06113

SEQUENCE DESCRIPTION:

GATCTTTGAA GATATCCTCA ACGTGAGGCT CTNCTGCCAT GAAGGTGAAG ATTAAGTGCT 60
GGAACGGCGT GGCCACTTGG CTCTGGGTGG CCAACGATGA GAACTGTGGC ATCTGCAGGA 120
TGGCATTTAA CGGATGCTGC CCTGACTGCA AGGTGCCCCG CGACGACTGC CCGCTGGTGT 180

GGGGCCAGNG NNCCCACTGC TTCCACATGC ATTGCATCCT CAAGTGGCTG CACGNACANC 240
 AGGNGCAGCA GCACTGNCCC ATGGTGCCGN CAGGAATGGA AGTTCAAGGA GTGAGGCCCG 300
 ACCTNGNNTC TAGNTGGGAG GGGNATNCTG AAGACTTCTT TNCTTNATTN 350

SEQ ID NO:5121

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06114

SEQUENCE DESCRIPTION:

GATCTTATTC AGTCTGCTGN TTTGTATAGT GTGATGACCC TAGTAAGCAC ATATTTGGTA 60
 GCCTTTGCAT ACAAGANTGT GAAATTTGTT CTCAAGCACA AAGTAGCACA GNAGNGGGAA 120
 GATGTGTTT CCAAAGAAGT GACTCGAAAA CTTTCTGAAG CTGATAATAG AAAGATGTCT 180
 CGGAAGGAGA AAGATGAAAG ATTCTTGTGG AAGAAGAATG AAGTNNCINN ATTATGAAGC 240
 TACANCANNT TCCATCTTCT ATAACAACAC TCNGTTCCTG GTCGTNGTCA TTGTTGCTTC 300
 CTTCTTCATA TTGAAGAAT TTCAACCCCA CAGTGAAC TA CANATTGTC CATAAGTTGN 360

SEQ ID NO:5122

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06115

SEQUENCE DESCRIPTION:

GATCTGGTCA CACCTAAAGT CATTAATACT ACTGAAATGT TTAGATACAC AGCCCAATAA 60
 ATTCTCTTTA TAAACACAA GCAGTAAA 88

SEQ ID NO:5123

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06116

SEQUENCE DESCRIPTION:

GATCAGGCCA CATAAGGAAC AGGGGAATTC CAGGGGTGGG ACACAGCTNG GGGAGTCCAG 60
 ACCAGGGCAG GGAAAGGAGA CTCACAAGCC AAACAGAGCT GCTTTGGGGA AAGTTCTTAT 120
 CAGCTGGTGC TGCTTCCTGA GCCATATGCC CATTCTCTCA GCTGTACCCN NNNNNNN 177

SEQ ID NO:5124

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06117

SEQUENCE DESCRIPTION:

GATCTTGGAC CTCCCAGCCT CCAGAAGTGT GAGAAATAAA TGTGTTTGT TTCAGCTAAA 60

SEQ ID NO:5125

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06118

SEQUENCE DESCRIPTION:

GATCTGGCTG ACTCACACGC GACTGGAGAA TAAACAAACA GCAACATAAG GAAA 54

SEQ ID NO:5126

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06119

SEQUENCE DESCRIPTION:

GATCTCCCAT GGGTCACCCA GGTCTATGC CTCCGCATGG TATGCGTGGA CCTCCTCCAC 60
 TGATGCCCC CCATGGATAC ACTGGCCCTC CACGACCCCC ACCCTATGGC TACCAGCGGG 120
 GGCCTCTCCC TNCACCCAGA CCCACTCCCC GGCCACCAGT TCCCCNTNGA GGCCCACTN 180
 GAGGCCCTCT NCCTCAGTAA ATTCACATT TNCTTCCTNC TGTTACATT TNCNAATATN 240
 TTTTCTATT CTTGGACCAA TCAGAGATGC TGTAGCTTNC TTGGGGCAAA GGGTACTAAA 300
 TCNCNTTNA GCACNN 316

SEQ ID NO:5127

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06122

SEQUENCE DESCRIPTION:

GATCCTGTTC CTGTCACCAT TGCTCTCGAT TCACTCAGCT GGCTGCTACT TCGCCTTCCC 60
 TGCACCACAC TCTGCCAGGT CCTGCATGCT GTGAGCCATC AGGACTCTTG TCCTGGTGAG 120
 ACCCTCTCTT CATTGTTTCC CCTCATACAT CTCCCTCTGC CAAGGAGTGT GCCCCTTTTC 180
 CTTTCTACCC TAGAATAAAC ATCTGGGTTC TCCAGTCAGA AA 222

SEQ ID NO:5128

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06123

SEQUENCE DESCRIPTION:

GATCGACTGG AACAAAGTGA CCGCTGNGTA AAACACTGC CTTGCCACTC ACTGTTGTAT 60
 ACATTCTTA TTTACGATT TCATTGTGA TATATATATA TAAANATACN GTATANANAT 120
 GCAACATANN 130

SEQ ID NO:5129

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06125

SEQUENCE DESCRIPTION:

GATCTTAGAG CTA AAAAGGA CTGTAAAAAT TACCCAGAAC AGCGTCCTCA GACTTAACCT 60
 TCTGCAAGTT ATGTCTGTAT ATAAGANGAT TCTAATTGCT AACTGTTTAT ACTTNCTGN 120
 ATAAATAGT TGTTTCTAAT TAAAANGTAG CCAAGCTAAA 160

SEQ ID NO:5130

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06126

SEQUENCE DESCRIPTION:

GATCTTCGTT CAGGGCATCA TCTGGGACAT CAACAGCTTT NACCAGTGGG GAGTGGAGCT 60
 GGGAAAGCAG CTGGCTAAGA AAATAGAGCC TGAGCTTGAT GGCAGTGCTC AAGTNACCTC 120
 TCACGACGCT TCTACCAATG GGCTCATCAA CTTTCATCAAG CAGCAGCGCG AGGCCAGAGT 180
 CCAATAAACT CGTGCTCATC TGCAGCCTCC TCTGTNACTC CCCTTTCTNT TCTCGTCCCT 240
 NCTNCCCGGA GCCGGCACTG CATGTTCTTG GACAACACCC AGAGCACCCCT NTNGTTGTGG 300
 GNTTTTGNNC NNCGAGCCCT TTAGCNGGGA ANGNCTTGGT CTTCNCCAN 349

SEQ ID NO:5131

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06127

SEQUENCE DESCRIPTION:

GATCCTCAAG GACCTGTAAT TTTTGGTAT TTAAATTAA AATAACATTA TTTTATTTT 60
 GANTTTTTTT CAAACAGTAA GAATAATATA TCAGCAGCAT GTATCTGCCA ATCATATGTA 120
 ATAAATTNTT TATTTTGCCA AAACCAAA 148

SEQ ID NO:5132

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06128

SEQUENCE DESCRIPTION:

GATCTAATAC AAGANCTAGC AAAGCAAAAG TTTTGCAAG TGACAGCATA AAGACGGANC 60
 ACAACAAATC CTTCTGNAG TGAATTAGGA AACTCCANGG N 101

SEQ ID NO:5133

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06129

SEQUENCE DESCRIPTION:

GATCCTCATT CTTTCCCCCG TACAGTGGAA AACATCTTN ATGTTTCCTT CATTATACGG 60

GATGGTTTTN CAAGAATAAG ACTTGACCAA GACCGACTGC CAGTAATAGA GCCTGTNAGT 120
 ATTAATGAAG AAAATNAGGG ATTTGAACAT AACACACAAG TTAGAAATCA AGGAATTATA 180
 GCTTTGAGTT ACCGTGACTG GGNGGNGATT GTGAAGACCT TTTGAGATT CAGAGCCTGT 240
 GATTACTCCA AGTCAGAGGC AGCAGNNGNC AAGTNCTTTG NTTGCTAGCT GAAAGGACTT 300
 AAATGGNTAG TGAAGGTCCA AAACCGGGNA AGCGGCATNG TGTGGN 347

SEQ ID NO:5134

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06130

SEQUENCE DESCRIPTION:

GATCACACTG CAGTTTCCAT GTTAGCACTG TGGATGGGTT TTNAATCAAT AAAAAGTGG 60
 GGTTCCTTCA AA 72

SEQ ID NO:5135

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06131

SEQUENCE DESCRIPTION:

GATCTGTAAA ATAAAACTC AGCTGGGTCC AGATATCAGG TGTTCTAAAT CTAAGAATGT 60
 AAGAACAATC TTAATAGAAA TATGTNTTAA ATAAGTGGCT AATATCTACA AATAGTACCT 120
 TTGCTAAATG ANTTCTTTT NATGACTATN TTGTTTTTNA GNAATTGGGT GAAAANNCAA 180
 CTGANATGAG ATTATTTATN ATN 203

SEQ ID NO:5136

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06133

SEQUENCE DESCRIPTION:

GATCTTAGAT TTATGAAGC ACAGTATGCA GGTAGGCCTA ATGGGGGAAG ATGGTAATAT 60
 AAAAGCAAGA AGTATTTTTT TTTTGAAAT GCCTGAANGC TGTNCTGNGG NTGCCCTCCC 120
 CTTNCCTTN 129

SEQ ID NO:5137

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06136

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGGGAGT TCGAGACCAG CCTGACCAAC ATGGAGAAAC CCCATTTCTA 60
 CTAAAAATAC AAAATTAGTC AGGCATGGTG GCGCATGCNT GTAATCCCAG CTAATTGGGA 120
 GGCTGAGGCA GAAGAATCGC TTGAAACTGG GAGGCGGAGG TTGCGGTGAG CCGAGANCAT 180

GCCATTGCAC TCCAGCCTGG GCAGCAAGAG TGAAGCTCCA TCTAAAAATA AATAANTAA 240
TAAATAANTA ANCCCTCANA NNNAATAATN 270

SEQ ID NO:5138

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06137

SEQUENCE DESCRIPTION:

GATCTGTAGG GGAGGGAGTT CAAATAAAGC TTTATTTTTT TCATTTTCAA A 51

SEQ ID NO:5139

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06138

SEQUENCE DESCRIPTION:

GATCTGGGCT CCCTGACTTT CTGAAGCTAG AAAAAGGTTG TGTCTCCCAA CCACCTTTCC 60
ATCCCCAGCC CCTCTCATCC CTGGAGCACT CTGCCGCTCA AGAGCTGGTT TGTTAATTAT 120
TGTTAGACTT TGCCATTGTN TTCTTTTGTG CCTGAAGCAT TTTGAAAATA AAGTTTACTT 180
AAGTTATAAA 190

SEQ ID NO:5140

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06139

SEQUENCE DESCRIPTION:

GATCGGGAGG ACCTGTATGC CTGACCGTTT CCCTGCCTCC TGCTTCAGCC TCCCGAGGCC 60
GAAGTCTCAG CCCCTCCAGA CAGGCCGCTG ACATTCAGCA GTTTGGCCTC TTTCCCTCTG 120
TCTGTGCTTG TGTTGTTGAC CTCCTGATGG CTTGTCATCN TGAATAAAAT ATANTAATAA 180
ATTTNGTATA AATAGGAAA 199

SEQ ID NO:5141

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06141

SEQUENCE DESCRIPTION:

GATCCAACCA CCTCAGCCTC CCAAAATGCT GGGATTATAG GCGTGAGCAC TTGCACCTGG 60
CAAAAAAATT TTTTTAAAAA AAGGAGAAAG CAGTTTAACC ACAAACAGTG AAACAGAGCT 120
GGCAGACGCC TGAACTCCA TGGAAACCATG CAGCTGTACC CTAGGGCTCC TCCCAGGAAA 180
AGAGAGATGT CAACGTGGCC CAAGGTGTCC TGAAGCACTG GGATTGGNTT ANCTCGAGCG 240
NTGGCCTTCC CAGCCCTNCG TGCTGCAGAG CCTCTGCTCG CTAGGCTNCC TTCATNCTNA 300
CTCTGTGTGC TN 312

SEQ ID NO:5142

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06142

SEQUENCE DESCRIPTION:

GATCTAAGAC AGCAAAGAAG TGTGCAAGGA GGGCCCTGTT AGCTCCCACT GTCCTGGTTT 60
CTCCTCCTGG AGTCTAATTT CCTTGGCCCT CTGAGCCTTT TGAGTCTGGG CCCTGGTCCA 120
ATGCTGCTGT TGTCTGAGGA ATGGTTTGGT GAGAACAGAT GTTAGAACTT GTTTGTTGAT 180
TCTTGTCTGG CTAATAAATC ANCACCAACT GNCTTCTCCN ACAGGGAAA 229

SEQ ID NO:5143

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06144

SEQUENCE DESCRIPTION:

GATCTAAGAT TATTCCTATG AGAAATGTTG AATTTATGAA GAATAGATTT TAAGGCTTTG 60
AAAATGGTTA ATTTCTCAAA AACATCAATG TCCAAACATC TACCTTTTTT CATAGGNGTA 120
GACACTAGCA AGCTGGNCAA ACTATCACAA AAGTATTTGT CACACATAAC CTNTGGTCTG 180
TTGCTGATTA NTACAGTACT TTTTCTTTGT GTGATTCTNA ACATTATAGC ACAAGTATTA 240
TCTCAGTGGG TTATCCGGAA TAACATCTGA AAGNGGGGT CATCTNTGGT NNGGTTTGCT 300
CNNTAAACTA GNGTNTCTCC TGGTCCCAANT GN 332

SEQ ID NO:5144

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06145

SEQUENCE DESCRIPTION:

GATCACATCA CGGAATATTC TTTGCCTTTC CACTTTCAG GAAATCTCTC GGACTGGGCT 60
AGCCTCCTTG TGTGTGATGA AAGATGGGCT ATATTTGAGA ACANAGTGCT GTGTTGTCAT 120
GATTTGCCTG GACTCCCAGG GCGTCTCTTA CCCAACTTGA TAACGATGCT GTTCATTAGC 180
AGCCTGTGTT AACTGATAAC CAAGAGCGGT AATGTGATAC TCATAAGCAA TTTTCTGTGT 240
GTAGGATAAA ATANNCCATC TTGTATNATT NCAAA 275

SEQ ID NO:5145

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06146

SEQUENCE DESCRIPTION:

GATCTCTTTT CAAGTTCAC TATTCTTTCT TCTGTAATGT TCAATCTCTC TTAAGAAAGT 60
CCAAATAAAT TTTTCATTTC AGAGAGTGGA AA 92

SEQ ID NO:5146

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06148

SEQUENCE DESCRIPTION:

GATCTGGGCA TTAAGTCAGT GGCTTTGCAT AGCTTTCACA AGTCTCCTAG ACACTCCCCA 60
CGGGAAACTC AAGGAGGTGG TGAATTTTTC ATCAGCAATA TTGCCTGTGC TTCTCTTCTT 120
TATTGCACTA GGAATNCTTT GCATTCTCTTA CTTGCACTGT TACTCTTAAT NTTAAAGACC 180
CAACTTGCCA AAATNTTGG CTGCGTACTC CACTGGTCTG TCTTTGGATA NTAGGNATTC 240
AATTTGGCAA AACAAAGTGT AATGTCAGAC TTTGCTGCAT NTTACACATG TGCTGATGNT 300
NACAATGGTG NCGAACATNA GTN 323

SEQ ID NO:5147

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06150

SEQUENCE DESCRIPTION:

GATCTTTTGA GTGGAGGTGG GTAGAGAGAG CAAGNAGGGC AGGACACTTA GCAGGCACTG 60
AGCAAGCAGG CCCCCACCTG CCCTTAGTGA TGTTTGGAGT CGTTTACCC TCTTCTATTG 120
AATTGCCTTG GGATTTCCTT CTCCTTTTCC CTGCCCACCC TGTCCCCTAC AATTTGTGCT 180
TCTNAGTTGA GGAGCCTTCA CCTCTGTTGC TGAGGAAATG GTAGAATGCT GCCTATCACC 240
TNCAGCAGAA TCCCAGCGAA AAAGGGTGTG AAGNACCCAC CATGTTCTTG GAGCANTCAA 300
GGGTTNCTAA ATNNNNCGGC TGGGACCANT NANATAGTGA GTNNNNN 347

SEQ ID NO:5148

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06151

SEQUENCE DESCRIPTION:

GATCTGCCAT ACCACTGTGA CTGCATTGAA AGATGTCCCT TTCTCTCTCT GCCAGTCGGT 60
CGGTGTGGGA CAAAACACAG ATATACAGCA GATAGCGGCC AAAAATTCA CAGACACCTC 120
TCTCATGTAC CCAGAGGACA CTTGTAAATC TGGACCAAGT ACGAATACAC AGAGTGGTCT 180
TTTCAACACT CCTCCCCCTA CTCCACCGGA CCTCAACCAG GACTTCAGTG GATTTCAGCT 240
TCTTAGTGGA TGTTGCACTC AAACGGGGCT GCAGAGATGG AGGCTTNAGG GNANANCTTT 300
ACAGNTTAAC CCNATTTTCA AGCANAAACA GTTCTCANGA AGTGTATGA TTGNCCGGGG 360
TAGAAGGGAA AGAGATTGAA TTTGCTTN 388

SEQ ID NO:5149

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06152

SEQUENCE DESCRIPTION:

GATCTATAAT GGGATACATT GTCATCCTCT AGCAACTCCT ATATAGAAAG TTTTAACTGA 60
ATATGTTACA TATANGAATT AAATTCTTCT CAAATAATTC TTAACCTCAG TNATGAGCCT 120
AAATTTACTC TGCTTGGCTC TCTACACATG GCATTTTCAGG GTATAAGATG TAGCATTTNA 180
ATGTGTAAGA TATATGTACN NNNCATATGT GTTGCTATCN TCATCATTAA CATCCTTCTT 240
TNCTATTGCT TGGCTGTAAT TTTTGTAAG ATAAATTATA TTGTNTNNNT GTATGTGTGT 300
TTGTAGTN 308

SEQ ID NO:5150

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06153

SEQUENCE DESCRIPTION:

GATCTGTCCT GTGAGGCATT TAGGGGCTTT CAGGAATTTA GTAAAAGGTG GAGTATGCCT 60
TTCCAGTATC TTCCATCTTC CTTTGTATAC TTGTCCTTCC TCCCATTTC TCCCTTTGGC 120
CCGAGGTAGG AGGATGGAGG GAGGCTGCTA CTCTACCACT TCCTGTGTGC CTCTACTGTG 180
GCCTCAACCC TGGCAATTAT AGCTACTCCC ATCCCTTACC TGGGCATGTG TGAGCCCTTC 240
TCACTGGATT TTATACCTT GTGTCTGTGT ACATAAATAT ATATACATAT ATATATACAT 300
AAAANCCTTG TACAAA 316

SEQ ID NO:5151

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06154

SEQUENCE DESCRIPTION:

GATCAGGCAG GAGAAAACT TTAGATGGGA GTCTTGTCAT CAAAAATAAA TACAGTTGCA 60
TGGAAG 66

SEQ ID NO:5152

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06155

SEQUENCE DESCRIPTION:

GATCAGGACA AGAGCGANGC ACCAGGGGAG CTCTCTCCA AAGGCCTTGT CGCCCCAGAC 60
CTAACTCGCT CCCCTCAAC CTGCCTGAGG AAGAACTCT CAGGATTGCA CGGATATTTT 120
CTTCTCAGTA CTCCAGAAA GACTGACGCA GCCTGAGGGG CTGGGGTTGA AGGAGACACC 180
TGCCCANCN NCGTCAGNTT TGTCCAGCTT GCAGGAGGCA CCAGGTCTGG CTCCTTCAGG 240
GCTGTCACAG TCCTGAAACC ACCACTTGCC TAGGTCACGG ATGCCTNAAG AGACCCGGTN 300
AGGCTAGATN N 311

SEQ ID NO:5153

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06156

SEQUENCE DESCRIPTION:

GATCTAGGGC TGGCCCCTAG TGAGTGGGCT CGAGGGAGGG TTNCTGGGA ACCCCAGGAA 60
TTGACCCTGA GTTTAAATT CGAAAATAA GTGGGGCTGG GACACACGAA A 111

SEQ ID NO:5154

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06157

SEQUENCE DESCRIPTION:

GATCTCCTNN TCCAGTGCTG CACACTCCTG TTTTTGGAAC TTTAATAGCG TTGCAACGAA 60
ATCCTATATC CAGTTTCCTG TAATTTANTT GAAGAAAAAT ACATCCAAAT AAAGACTTTA 120
TTATTAAACAG ACCAGATAGC ATCAGAAATC ATGTGACTGT TNTGCTTATC AGANTATGTC 180
TNAACTNTTT AGGGCAAAGT TAACACTGAA AGTTCTAGCT TAAGTGTTGA NCCTNTNGTG 240
GGAAAAANAA TTCCACTTGT GAAACNTCAG GCTN 274

SEQ ID NO:5155

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06158

SEQUENCE DESCRIPTION:

GATCACTCTG GTGCGGGTGT TTGGTTTTGT TTTAAAATAG CTTTGCAGTG AAAGCTTTCA 60
TGACCATACA AATNATCTTT TTTCTTCCTA TTTCTTGTGA GAGGTTTTTT TCCTCCTTGT 120
CTTAAGGTCA TAAAAATATT GTTATGTGGG ACAA 155

SEQ ID NO:5156

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06159

SEQUENCE DESCRIPTION:

GATCTGTGGC TTTGCTCCAC CATCCCTAAC CAACCTCTCA TCACAGCTTT NTGTGTGGGC 60
TGAGTGCTGG CCTTAACCTT AGGCGTGGAA GAGAAAATGT GAGGTTGTTT AGATACTCAT 120
CAGGACCTCA CAGGAGCTGA GACTTATCAG CCAGAATNTG TTCTTCGGAC AGTCGTACAC 180
ATCTTACAGA AAACCTCCT TNGTAGAGTT GGNTTGTGGT ATGTGTTTGA TGCTATAAAG 240
CTCATTTTTA ATGGTGTA CCGTNTTCTA GGGNCGATTT CGTTTTGGAA GNGGGTAANG 300
NTGCNTTAA CAGGTAACNT ATCCTTGGGN TTTAAGGTGN AAAAAATNTT CTNGNCAAAG 360
GGAANCCNN 369

SEQ ID NO:5157

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06160

SEQUENCE DESCRIPTION:

GATCAAAATC AAAAGAACCG TGTAGATATA CTTNATTGTA TAAGTAGAAA ATTACTTAAT 60
 TNCATACTAG AAATGGATGG ATGCTGCAAG TTGAAATGGA CTGTCCATTG ACGGTCCTAA 120
 TGTGGTAGCA GAAAAANATG GTGCTTAAG TNCTTAGNGT TTGATGTCAT TAACAGTTTC 180
 GTAAACTCT ACAGTGTAGN AAGTTTTTTC AATACTAAAC TGTGCGTTGT NCATAGTTCT 240
 AATGCATTGT NTTNGCCNCC CGGTACTTTC TNTNAANGN 279

SEQ ID NO:5158

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06161

SEQUENCE DESCRIPTION:

GATCTCAAGT GAGATAGCAG AGCAAGATGC CAAAAGACCA TAAATAGAGT AAGGTTTCTA 60
 TAGATGTNAG ACAGATTTGA GAGAGCATTT ACTCTGTCTC CCTGTGGATG AAAGTGTCTG 120
 TGAAATGGTT CCAATTTTNA GGAATCTGCT TACCCNCTTC ATTATTTGAC AGCTTTCCTT 180
 GGTGACCCAA ACCTTGTAGC CTAAGCCATT TGTCTTTTTC TCAGTGGAGG GAGTGTATGG 240
 ACCTGGCCCC ATGGCTTTGC ATGTTAGAGA CCTGGCNGAC TAAAGTCNCN GGGTGTGTTGT 300
 TTGCTCACAT TTGCTGAGTG ACAGNTATGG TGNCCNN 337

SEQ ID NO:5159

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06163

SEQUENCE DESCRIPTION:

GATCTACAAC CCCTGGAGC AGTGCTGTNA CAATNACGCC ATCGTGTCCC TNAGCGAGAC 60
 CCGCCAATGT GGTCCCCCCT GCACCTTCTG GCCCTGCTTT NAGCTCTGCT GTCTTNATTC 120
 CTTTNGCCTC ACAAACGATT TTATTGTGAA GCTGAAGGTT CAGGGTGTGA ATTCCCAGTG 180
 CCACTCATCT CCCATCTCCA GTAAATGTGA AAGCAGAAGA CGTTTTCCCT GAGAAGACAT 240
 AGAAAGAAAA TCAACTTTTC ACTAAGGCAT CTNAGAAACA TAGGCTAAGG TAATATGTGT 300
 ACCAGTAGAG AAGCCTGAGG AATTACAAA ATGNTGCAGC TCCAAGCCAT TTGTATGGCC 360
 CATGTGGGAG ACTGNTGN 378

SEQ ID NO:5160

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06164

SEQUENCE DESCRIPTION:

GATCAGCCCC ACCCTGGCCT AGACCAGCAG ACAGAGCCAG GAGAGGCTCA GCTGCATTCC 60

GCAGCCCCCA CCCCCAAGGT TCTCCAACAT CACAGCCCAG CCCACCCACT GGGTAATAAA 120
AGTGGTTTGT GGAAA 135

SEQ ID NO:5161

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06165

SEQUENCE DESCRIPTION:

GATCTCGTAA GATTAAATGT AGCATTCTAT ACTCCCTACA TGCACAGTAN GATTGTGTTA 60
ATGAATGGAA GGAAAGACTA AATACAATGT CAAATGTNAC TATTAATTGG ACAAGAAAAAT 120
CCAAGTAGCA AATGACCATT ATGTGTAAGA CTTACTCTAA AAAGACCNTT TTAAATAGCT 180
CATATATTAA TNTNGTTTAA AACCTGCTAT TTTCCAAAAC TGCAAAACTA GGGCTATAAA 240
AATCTAAGTT AAAAAATCAG CTNATCCTCA TTGGTATAGT GGTNTGGNNA AAAAAATCCA 300
GTTTAAACC NGNNTNNATT GANAGGNTGT CTCCATGCCT NCCATTGGGN 350

SEQ ID NO:5162

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06166

SEQUENCE DESCRIPTION:

GATCACTTTT ATGTAAAAAT TATAATTTAA TTAATAAAAA ATTTCTTAAG AAGTAAA 57

SEQ ID NO:5163

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06167

SEQUENCE DESCRIPTION:

GATCAGGCCT TGGCCTCTNA GCCCTGCCTG CTCTGGGCCA TGCAGAGGAA GGACAGAGNG 60
TGGGCGCAGG GCACCAACTC AGGGACATCC CCTCTCCTGG GCGACGTCAG TGGACCTTCC 120
TGCACCCCCA GCCTGGAATG TAAATNAGCT GTGTGGTGCC CGCGTNGCTG GAAGGAAATA 180
GACCCTTTTN TAGCTCCCTG AAA 203

SEQ ID NO:5164

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06168

SEQUENCE DESCRIPTION:

GATCTCTGT GATACCAAAA TCCATGGATG CTAAAGTCCC TTTTAAAAA TGGCATAGTA 60
TTTGCATATA ACCCAAACAC ACCCTCCTGT GTATTTTAAA TCATCTGTAG ATTACTTATA 120
ATACATAATG TAATGTAAAT GCTATAAAAN TAGTTATTAG ACTGTATTTA GGAATAATG 180
ACAAGANGAA AAAGTCTGTA CATGTTCACT ACAGAGGCAA CCTTTGTAGG TCTAAATANN 240

TTTTAATAC AGNANTNNGG ATGTNAGNNN NGGN

274

SEQ ID NO:5165

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06169

SEQUENCE DESCRIPTION:

GATCTCTTTT TATTAAATG TGAATTTCAA CTTTGGACAA TCAAAGAAAA GACTTTTGTT 60
GAAATAGCTT TACTGTTTCT CAAGTGTITT GGAGAAAAAA ATCAACCCTG CAATCACTTT 120
TTGGAATTGT CTTGATTTTT CGGCAGTTCA AGCTATATCG AATATAGTTC TGTGTAGAGA 180
ATGTCACGTG AGTTTGTAGT GTATACATGT GTGGGTGCTG ATAATNGTGT ATGTCCTTTG 240
GGGGTGGAAA NGGATAACAA TTCAAGCTGA GAAANGTATT CTCAAAGATG CATTTTATA 300
ANTNTNATTA ANCAATNTTG TNANAGNNNG ANGNGTGGGN NTN 343

SEQ ID NO:5166

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06170

SEQUENCE DESCRIPTION:

GATCATACGA GGCATGTAAT ACCAAGAATT GTTACTTTAC AATGTTCCCT TAAGCAAAAT 60
TGAATTTCCCT TTGAACTTTT AGTNATGCAC AGACTNATAA TAAACCCTCT AAANCCTGCC 120
CAAA 124

SEQ ID NO:5167

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06171

SEQUENCE DESCRIPTION:

GATCTTGGAC CCAGTCTGGC CCGTGCCCGAG CATGGGGCTG CTTCTCCTCC ACAGCTCCTT 60
CCCAGAGGGC TGGGGCCTCA GCCTCCCTGC CACGTCCACT CTGGGGCTGGC CTGGAACATA 120
CTACTATGTT GACAGTAACA ATAAAGCTCC TCAGGGACCA CCGTACAGGC CCGCAGCCCC 180
ACTGNCTGCT GTTGAAGAA AGCTGTGGAA AGAAAGCAGG GGGNCCCTGC CCCAGGCCAA 240
GGCCCTGCCC TTGCCACACA CGGTACACAN ATGCAGCCTC TCTNTCTCTN TGTGTCCACT 300
TGTGAAAATA ANCTGCAGGN CTGGNTNGGA CAACAAAGGN AGNNGNACAG TGTCTNGGNN 360
GGCANN 367

SEQ ID NO:5168

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06172

SEQUENCE DESCRIPTION:

GATCAGTTCA GTATATTGCA CTAATTATTT TAGGTATTTT CATTATATGA AAGCTACCAT 60
 GTGTCAGAGA TGATTTAATC TATTTAAGTG TTGGACTGCT AGGAGAACTT GTACATTTAT 120
 GATAATGCAG AATTAGGAAA ACGGTTCCACC AGTGTTTAGT TTTATATTGA GGTGCTCAGG 180
 TTGGTATAAA GTGGTATAAA AAGCAAA 207

SEQ ID NO:5169

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06173

SEQUENCE DESCRIPTION:

GATCATGCCC TTTGTAGTAN CACAAATGNN GCTGGAGACC ATTATATTAA GCAAACCTAAC 60
 ACAGTNCAG ANAACCAAAAT ACAGTATGTT CTCACTTATA AATGGGAACT AAAGNN 116

SEQ ID NO:5170

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06174

SEQUENCE DESCRIPTION:

GATCTGCTAG GGATTGTCAA AATAATCTCC TTGAGGCATC TTTATTTTAA AAATGAGATT 60
 AAAGTATGTG ATTTGCTTGT TATGTGGCTA AA 92

SEQ ID NO:5171

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06175

SEQUENCE DESCRIPTION:

GATCANCAGA AAAGGCAAAT TTCACTCGNC TAAACACTTT CAATTTTCAG TTNTAATTTT 60
 ATNTTCTATA TACCCAGTCA TAAAGTATAA GCATCAGTTG TCATTAAAAG TTTTCAGAAA 120

SEQ ID NO:5172

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06176

SEQUENCE DESCRIPTION:

GATCTGTAAT GAAAAGAATC TGNTACTGCA AGTAAACCT ACTCCCCAAA AATGTGTGGC 60
 TTTGGGTCTG CATTAAACGC TGTAGTCCNN GTTCATGCCA AA 102

SEQ ID NO:5173

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06177

SEQUENCE DESCRIPTION:

GATCACTTNT NGTCTGATTC CAGCCTGCTT GCAACCCTGG GNTCCTCTTG TTCCTGCTG 60
NCCTGCCCCT TGGGAAGGGG CAGTGATGGC TTGAGGGGA AGGAGGAGAC CCTCTTTCTC 120
CCATGCTGCA CTTACTCCTT TTGCTAATAA AAGNGTNTNT AGATTGTCAA A 171

SEQ ID NO:5174

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06179

SEQUENCE DESCRIPTION:

GATCTAAACT GTATTGNCCA ATTTAAATAA AAAATNNAAT ATAGATTCAG AAAGGTTTCAT 60
ATTTTCTAA TGACTTCATT CTATATTATN TTGTTAGGTT GCATAAGAA GCAAGGAATT 120
GTACTGTAT TAAAGATGA AGAAAGCTAT TAGGTATATT TGTACATGNC TGCANNTGTG 180
TCTATNNN 188

SEQ ID NO:5175

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06180

SEQUENCE DESCRIPTION:

GATCTTGAGA GGTGGAGGTT GCAGTGAGCC AAGATTGTGC CACTGNCTTC CAGCCTGGGA 60
GACAGCAAA 69

SEQ ID NO:5176

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06181

SEQUENCE DESCRIPTION:

GATCTGTAA TATGTAACAT ATTAATGGGT AACTTGCTGT GTAAAATTAT AAGCCATATT 60
TTAAAGGTT TAAAAATAC TTATTGTGCT CCATTGTGA TATAATTNCT AACATTCTG 120
CTCTGTGANN NNNN 134

SEQ ID NO:5177

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06182

SEQUENCE DESCRIPTION:

GATCTNGAG ATTGTTCCAC ATCAGTACAT AAAGTACATA AAGATTGTCA CCCACAAA 59

SEQ ID NO:5178

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06183

SEQUENCE DESCRIPTION:

GATCTGTCTA CTTNNCTTAT CCTGATTCAA ATGGAATGCC AGTATGGAAC TCCTAGGATT 60
TGTCACGAAT GGGAAGCCAA GTGCCATCTT CAAAATTTCA GGTCTTAAAC NTGGAGAAGG 120
AAGCCAACAT CCTTTTGGAG CCATGAATNT TGTCCGAAC CCANNNTGTT GCTCAGANTG 180
GANTTTCACT GGN 193

SEQ ID NO:5179

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06184

SEQUENCE DESCRIPTION:

GATCATTATT TGGNAATATG TCCTATGGAA AGAATAAAAG CATGTNCTTC ACAGCTAGCA 60
TGTTACAGA TTTGAAAGAA GTTTCATTAA AAGCACCATT GCTTCAAA 109

SEQ ID NO:5180

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06185

SEQUENCE DESCRIPTION:

GATCTTAATT TAAATAGGTG CTTAATTTT ACAGCTTTCA AAAGTAGTTA CTGTAAATTT 60
TACTCTGTGT AATGCTGGAT TGGTTAAAG GATTATAAG GGCTGTGTTT NCTCTNTACA 120
AGGCAAGATG CCATACAGNG TTCANTAATA GAAGGTCTNG ATACAACCGA CATTTTAAAT 180
ATTCTNTATA CATGNGGACT GCGTCTTTTT CACTGACCCT ATGANTTAC TGTGGAGTAG 240
GGTGAACGG NCTGCANATT AGTTTATTG TTGCCATAAT CACATTNNNG AAAAGAN 297

SEQ ID NO:5181

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06186

SEQUENCE DESCRIPTION:

GATCTNATTG CTTATAAACT TTGGTGACGG TAGTGTGTAA GGCCGTATTT NNAGCATCTN 60
ACAGGTGTTT AAAAAAAGT GGTGTGCGCA CTGGGAAGTG GAGTGATGGC CTCGTCTCCA 120
GTGCTCCTCT GGGCTCTTGA GTTGCTGCTT GANTTGCCGT GTAGACATTT NCTTGGAGAG 180
TCCACTTGTN ATTTGACGGA GGTAGGTTTC AACCAGAGT TAATGTCAAG CATGCTAATT 240
TANCTAGTCA CTCACAGATG ACTTTCCTTT AATAAAAGTC CCTTTTCCCT AAAANAAAAA 300
A 301

SEQ ID NO:5182

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06187

SEQUENCE DESCRIPTION:

GATCTTTGGG CAAGTCACTT AACCTCTCTT TNCCTCAATT TCCTCATCTT GAAATGAGGA 60
TAATAATACC TGCTGTACCT ACCTCACAGG GCTGTTGTGA GGATTAAATG AGNTGGCATG 120
TGAAAGCACT TTGAAAATTG TAAAGCGCTA TGTAATGTA AGGTATTATA GAANCATCTT 180
TAACATATAG TTTCATACCA TTCATTTTTT ACCAAAGAAA GGGAAAGTNT GCTNGTANGC 240
TGGTTGAAAA AGTTANNCTT GGTATAANNT TGNGTTTGGT TGANGNANAA GGN 293

SEQ ID NO:5183

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06188

SEQUENCE DESCRIPTION:

GATCACAAAA GTATATAAAA AGTCTACTAG AGCAACATTT TCCCATATTT TTNGGTTCTC 60
AAAGCAACTT ATGTATGNTT TAGAGANGNC AAAAGAGGAA GCCTAGGGGG AAAAGAAAGA 120
NAATTAGAAT TTGCAAATNC TAGAAAAAN 149

SEQ ID NO:5184

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06189

SEQUENCE DESCRIPTION:

GATCGAAAAG AAATTTNTTT ATACTTGATG CCTTAAGATN CCCAAAGCTG CCCAAAGCTC 60
TGAAAGACTT TAAGATAGGC AGTAATGCTT ACTACAATAC TACTGANTTT TTNTAGAGTT 120
AACATTTGAT AATAAACTT GCCTGTTTAA TCTCAAA 157

SEQ ID NO:5185

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06190

SEQUENCE DESCRIPTION:

GATCTTGCCT GGAAGGTGTT TTAAGTTTNN TAATAAACAA GATGATGTCT GAAAATNTGA 60
AA 62

SEQ ID NO:5186

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06191

SEQUENCE DESCRIPTION:

GATCTAGAGC AGCATGGAGC TGTGGTAGA ATATTAGTTT TTAACCATAC ATTGTCCCAA 60
AAGTGTCTNT GCATTGTGCA AAANGTAAAC TTAGGAACAT TTNGGTATTA AAAGGATTAT 120
TTTAATTGNN AAAAGCCNGA NGCGN 145

SEQ ID NO:5187

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06192

SEQUENCE DESCRIPTION:

GATCAACAGC TCCGCCTACC GCAAAGCATT TGANAGCAGA CTAGCCANCA GTNGTGCTCT 60
GAGAGTGAAC GNGCACCTCC AGGTNGAGGG CCACAGCAAC GTN 103

SEQ ID NO:5188

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06195

SEQUENCE DESCRIPTION:

GATCTGATAG AGGGGGAGGC AGAAGCAGAT ACTAGAAACA AACAAACTT TGGACCAAAA 60
TCCCAGTTCA AAGAAACAAA AAAAAGAGTG GAACTATTC TATCATAACT ACCCAAGGAC 120
TACTAAAAGG ANAAATTGTG TTACCTTTTT TAAATCCCT GTTAAGTCCC TTCCGTAATT 180
TTNATGTTCT TGTGAGGANA AAAGTAAANC ATGTTTANTT TTAANNAAGG NGANAGNGGG 240
NGTNTAGN 248

SEQ ID NO:5189

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06196

SEQUENCE DESCRIPTION:

GATCTCTTAT ACAGACGCAC CAAAGCCCTC ATTGACTATG AGAACTCAA CAAAGCTCTG 60
GATAAGGCCC GGTAAAGAG CAAAGACGTC AAGTTGGCTG AGGCACACCA GCAGGAGTGC 120
TGCCAGAAAT TTGAACAACT TTCCGAATCT GCAAAAGAAG AACTGATAAA TTTCAAACGG 180
AAGAGAGTGG CAGCATTTAG AAAGAATCTA ATTGAAATGT CTGAACTGGA AATAAACAT 240
GCCAGGNACA ATGTCTCCCT TTTGCAGNGC TGGTNTTGAC TTGTTCAAGA GTAAGTGGT 300
ATGCCTTCAC TCNGTAGGAA NNGGAGTTGA ATTGTTGTAA GGAAGCCNAN GTGN 354

SEQ ID NO:5190

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06197

SEQUENCE DESCRIPTION:

GATCTCTATT TTAAACTAG CTTTTTAAGC AGCTGTATGA AATAAATNCT GAGTGAGCCC 60
CAGCCCGCCC CTGCAAA 77

SEQ ID NO:5191

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06198

SEQUENCE DESCRIPTION:

GATCTAGCTT CANAGGAAGT CTACACCCCA TTCCCTTCTG CTTACAATGT ACCCATGATA 60
TGTGTTTAGC ACAGTAATAC TGTAACAGGA CATCACATGG AAAAATCAAA GCAGCTGGCT 120
CACTGTATTT AACTGAAAAG AATGCCTACA GATTGGATAT TTNGTAGGGG NAATTAAGGC 180
ACTTTNNTAA CAAACTTCAT TNTGTGAAAC TNGGTTGAAT ATTAACATAC AATTNNGNCG 240
GGNNTATTAA TGCCATN 257

SEQ ID NO:5192

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06199

SEQUENCE DESCRIPTION:

GATCCCAGGC TGCCCTGGAC TTAGACCAGT GTCTGAGGTG GTAACAGCGG CCGCACAGGG 60
TTGGCCTAGA CCTNGGATTT GTGGGGAAAG CTGCTGGTGT GACCANCTGA GCACCCAGCC 120
AGGAGACCTG CAGCCCTNCG NCTTCCAGAA GCAGGTCCCA AATAAAGNCA GTGCCNACCT 180
NCAAA 185

SEQ ID NO:5193

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06200

SEQUENCE DESCRIPTION:

GATCTGTATA TAACTTTAAT TTTAAGGACC ATAATCAACT TTGTAATATT CTNATATAAA 60

SEQ ID NO:5194

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06201

SEQUENCE DESCRIPTION:

GATCACCTC TACGGGAGAA CCAAGGAGCT GACTTCGGAA CTAAAGGAGA ACTTCATCCG 60
CTTCTCCAAA TCTNTGGGCC TCCCTGAAAA CCACATCGTC TTCCCTGTCC CAATCGACCA 120
GTGTATCGAC GGCTGAGTGC ACAGGTGCCG CCAGCTGCCG NACCAGCCCG AACACCATTG 180
AGGGAGCTGG GAGACCCTCC CCACAGTGCC ACCCATGCAG CTGCTCCCA GGNCACCCNG 240
NTGATGGAGC CCCACCTTGT NTGCTAAATA AACATNTGCC CTCAA 286

SEQ ID NO:5195

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06202

SEQUENCE DESCRIPTION:

GATCTCTTGT TCTCTCCTGA GTGTCTTNCT ACTNTGCTGA GNGTCTTTCT GCTGTCCTTA 60
TCCTGTTCTC TTATCCTNAT CCCCTCCAGT CTCTGCCTAA TTTTNAGTGT TTAATAACAA 120
CCGNATGTCT AGTAAATN 138

SEQ ID NO:5196

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06203

SEQUENCE DESCRIPTION:

GATCAAGAAC TTGGAACCGC AGAAAACGAA ATCCCATAGT AGCACAAAGC TTGGCTGTTC 60
AGTGAATAAC ATTTAAATAA TCGTAAANTA CAGAAA 96

SEQ ID NO:5197

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06204

SEQUENCE DESCRIPTION:

GATCTTGCAG CTTTATTTGA GTATTGTTC TTTTGTGTAG TTTCCATCTT TTAAATATT 60
TAAATATTT TCAAGATAAA GTATTATCTT CTCTGCAAAA ATTCCTGGAG TAATTTNCTC 120
TCATAATATT TGAGGTCAGT GGTTCCTCAGT TGTATTAGTG GGGTAACTAC ATCAAAGTAA 180
ATAANGTCTT ATTTTNNANA TGCAAATTTT AGACCATAGA AA 222

SEQ ID NO:5198

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06205

SEQUENCE DESCRIPTION:

GATCAAGTGA ACCATCCCTA GTCTTCCCTC AATAAATAAC TTTTAACTCC AAA 53

SEQ ID NO:5199

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06206

SEQUENCE DESCRIPTION:

GATCANAGTG AACCTCAGT TTGTACAAA GAGTATGGG TCACAAGANG ATGATTCAGG 60
 AAACAAACCA TCCAGTTATT CTTGAACTA ACATCCATCC TGAGCTAAAC NAGAGAAACT 120
 ACCATCTTGG CCAGTGNCAN GTGTTCGGAG GGCAGCAGAG NGGACCAAGC CTGTGTCACC 180
 TGGNGACTAA GAANTTAAGT TTTGTNTGA CATATTCAGT CCTGTGTGCT TNCAGNAAN 239

SEQ ID NO:5200

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06207

SEQUENCE DESCRIPTION:

GATCGAATAC GTGGATGNGA CGGGCCGGAA ACTCACACCC AAGGAGGCTT TCCGGCAGCT 60
 GTCGCACCGN TTCCATGGCA AGGGCTCAGG CAAGATGAAG ACAGAGCGGC NGATGAAGAN 120
 GCTGGACGAG GAGGCGCTCC TNAAGAAGAT GAGCTCCAGC GACACGCCCC TNGGCACCGT 180
 GGGCCTGCTC CAGGNGAAGC AGAANGCTCA GANNGACCCC NTACATCGTG CTN 233

SEQ ID NO:5201

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06208

SEQUENCE DESCRIPTION:

GATCAAAAAG GGGTTGATTA CAAGGGCAGG AAGGAATTGT TAGTGTGATT CTACAGTTCT 60
 GCATCTTGNT TATGGTATGA CTGTGCGTTT GTCAAACCTT AACAGGATGA ATTTTGCTGA 120
 ATGTAAATC ATACTTCAAT AAACATGACT TAAAAANCTT AAA 163

SEQ ID NO:5202

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06209

SEQUENCE DESCRIPTION:

GATCAGTTTA TGTGTAATAT TCTAGTGCTT TAATGACTCT TTTTTCTTT GGAGGGAGGG 60
 TAACATTATT TGGACAGATG CAGAAGGAAC TGTTAGTGAG TCAAGACAAA CACATCTGAA 120
 ATAAAGGAAC TGTGTATTAA CATGTTAACA ATTCATAACT GCACTTTTTA TGACATTTTG 180
 AAAATCTATT TATAGGTACA GANCAATGGG TTTTGTTAAN CTGTATCACA TTTATNCTTG 240
 CAGAAATTTA TTNCATTGTT ATTAGTAGGA ATTTTNTTGG TTCAATAAAA TTGGCAAAAN 300
 CTGGGAAAAAN NAAANNTTN 319

SEQ ID NO:5203

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06210

SEQUENCE DESCRIPTION:

GATCTGTCTA GTTCCCATTC TCTGTTCAAC CTCAGTGNTT CAAAAGTTCC TAATAAATAA 60
ACTCATTGA GTTGAACCTA AA 82

SEQ ID NO:5204

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06211

SEQUENCE DESCRIPTION:

GATCAAGAAA GAAGCTATCT GGGANCANTG TAGCANTTAC GTCAGACCAG GACACTTCCT 60
GTTTACAGGA GACTATAAAA CCTTTGTCCT ATCATCACTT GATGTGGACG NCATTTTAGG 120
CCTCAGCCCG CCTGCACCCA GNNNN 145

SEQ ID NO:5205

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06213

SEQUENCE DESCRIPTION:

GATCAGAAGC ACCTCTTCTT TTATAGAAGT TGATGGATGG TTCATTCCAT TCTGCTACCA 60
AGAAGTGCAT GCTGCTGCAG CGACACCTCA TTGCAACCTA TTATGAGAGA GTAAACACA 120
CACTCAGTGA CATTTCAGCC TGCTCTCAAG NCCCAATTTT TATTCCATCA TTAAATAAT 180
CCAGTAAACT TNCAAATTTG GAAACCANAA ACTAAGGCAT ACCTGGCTTA GATTCTTTCA 240
GAATTTTCTG NTCTTTTGTA CGTAAATTNA AAAATAATTT GTGGCAGGNN TTAA 295

SEQ ID NO:5206

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06215

SEQUENCE DESCRIPTION:

GATCTTTAAA ATNAAGTGTA CGCTTATAAT ACAAGTAATG CTTGTGTATT TCTCACTTTA 60
GGAAATAAAA TATTTGCCAA TTTGAAA 87

SEQ ID NO:5207

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06216

SEQUENCE DESCRIPTION:

GATCCTCCCA TCTCAGCCTC TCGAGTAGCT NGGACCACAG TTGTGTGCCA CCACACTTGG 60
GCTAACTTTT TAATTTNTTT GCGGAGACGG TATTGCTATG TTGCCAAGGN TGNTTACATG 120
CCAGTACAAT TTATAATANA CACTCATTTT NCCTNCCGTC TGAAA 165

SEQ ID NO:5208

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06217

SEQUENCE DESCRIPTION:

GATCTTCTTC AGAAGCTTCA AGTCTCANCT GCATTAAAGC TCTCCATTGA ACCCGNTCAC 60
AAAAGTACAA GCTTAAAGGG GCTAAAATCC ATTAATACAT NCCATNTTAT ANCCCN 116

SEQ ID NO:5209

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06218

SEQUENCE DESCRIPTION:

GATCCCCTGN ACCGAGTACA CGACCCAGGT ATGTACCAAG TAGGCACCCT TGGGCGCACC 60
CACTGGGGCC AAGGGTCGGG GGAGTGTGG GAGCCTCTN CCCACCNNAC CTNCCTN 117

SEQ ID NO:5210

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06219

SEQUENCE DESCRIPTION:

GATCAGCCAC TTGCTGACCC TGGTTCTTAA GGACACATGA CATTAGTCCA ATCTTTCAAA 60
ATCTTGCTCT AGGGCTTGTG AGGAATCAGA ACTAACCCAG GACTCAGTCC TGCTTCTTTT 120
GCCTCGAGTG ATTTTCCTCT GTNTTCACT AAATAAGCAA ATGAAAAC TCCTCCATTAA 180
A 181

SEQ ID NO:5211

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06220

SEQUENCE DESCRIPTION:

GATCANAACC AGTTTGTAGA TTTCTTTGTT CCTTCTCCAT TCCCACTGCT TCACTTGCCT 60
AGTCTTGAAG NAAAAAACA AAAAACAAAA AAAACCTTGT TCCTTTATAG GTTCCTGGTA 120
GAATCAGTAG AGATGATTTC AGCTCATTGA CATTTTTTTA AGCTATATCC CCTTGTCATT 180
CCATTGAGAA AGCTGACAAC TGGGATAGGG AGGGGATTCTG ATAATAGATG GGGTCAAATT 240
CTGTGTGAAT GTGAAC TTGC CTAGTAAGCA CTTTGGTCTG TGGTTCAC TN CTGCGGTTAG 300
NNGAAATCTA TCTCCCCTAT CTTNGGGTCC TTGAACTACA GCNN 344

SEQ ID NO:5212

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06221

SEQUENCE DESCRIPTION:

GATCACATAA CTAGGAAGTG GCAGAACTGA TTCTCCAGCC CTGGTAGCAT TTGCTCAGAG 60
 CCTACGCTTG GTCCAGAACA TCAAACCTCCA AACCTGGGG ACAAACGACA TGAAATAAAT 120
 GTATTTTAAA ACATCTAAA 139

SEQ ID NO:5213

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06222

SEQUENCE DESCRIPTION:

GATCGTAAAC CATTATCCTT TAAAGGTNTA TTTGAAGATG CTGTTAAAGT ACAGAATTTT 60
 GTGTACAGGT AGATTTTNCCT GTCCCTCATT AATAGTGCCT TCTTAATTAA TACAGACTGG 120
 TGTTAGCTAT AACAAACTC CAGTANNGGG GGGTGNATCC CAAGTNCTTT GTGGCNANN 179

SEQ ID NO:5214

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06224

SEQUENCE DESCRIPTION:

GATCAAAATG TTCTGGAATT AGATGTGATG TTTGCACAAC TCTGTGAATG TACTAAGAAC 60
 CACTGAATTG TATATTTTAA AAGCATGGTA TGTGAATAAT ACCTCAATAA AGCTGTTATA 120
 AAAAAATAA 129

SEQ ID NO:5215

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06225

SEQUENCE DESCRIPTION:

GATCTTCAAG CATAGNNTTG CATATTTTAA CATCTGAAAT CAGAAAGTGT CTTNNCTGGG 60
 AGTNTGGTTT TAGAAACATG AAATAGTACT GTATGTTAAA ATCGATGGCA GTGTTGCCTC 120
 GATGATATNT N 131

SEQ ID NO:5216

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06226

SEQUENCE DESCRIPTION:

GATCTTTGAG CGGGACCTGA AGAAGAAGGG GCCCGAGCCG GTGCCACTGG AGTTTATCCC 60
 AGCCCGAGGC CTGCTGGGAC GGCCGGGTGA ACTCTGTGCC CAGCACTTCA CGCTCAGCTG 120
 ACCCTGGCCC ACCTGTNAAT AAATCTCAGC TGACCCAGC CCACCTGTNA ATAAATNTTT 180

TTGCAGGAAA

190

SEQ ID NO:5217

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06227

SEQUENCE DESCRIPTION:

GATCCCTGGT CTTCACTG TAGCAGCCAA AAGGAACAAG CTGAAANTGG ATACCTAATG 60
TAAGTGGAGT CTTCTAAGTG TTTCCTGGAA GAAGTCGGGT CCCAGGCTCN AGTTGCTGGT 120
TCTNACATGC CACCATCCAC AGTCCTTCAG CAGATTNATT CAGTGGCTAA TGCTGATATC 180
ATAAATGCGG CAAAGAAGTT TTTTCTGGC CAGANGTCAN TGGCAGCAAG TGGAAATTG 240
GGNCATNCAC CTTTTGTTG ATGAGTTGTA ATACTGNNGC GCNCATTACC AGGTGAGAGC 300
TGGANCGTNT TTTCAGNCCN TGN 323

SEQ ID NO:5218

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06228

SEQUENCE DESCRIPTION:

GATCAAAAGTT CAAATTAATT TTAACCTAGC TAATNAACTC ATCACCAGGA CAGTTGGAGG 60
GGGTAGGCCG AGGTAAATG GTCCACGTTT CAAAATGTT AATGGCTAAT CCATAATTAA 120
AGAAGGTTTA ACTGTTACTG AAGTTTACAA GTTTTATTGT CATGNACATG AANTACAAAC 180
ACGATGGCTT CGAAATGTCT TTCAATAANT GTTCTGTCAT TTAAT 225

SEQ ID NO:5219

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06229

SEQUENCE DESCRIPTION:

GATCTCATTC TCACCTCAGA AACCATTAC AACCCAGATT ATNATAGTAA TTTGCACCAG 60
ACTTTCCTTA GACTGTTAAG TAAAAATGGA CGTGACTTT TGGCCAGCAA AGCACATTAT 120
TTTGGTGTAG GTGGAGGTGT TCATCTCTTT CAGAAGTTG TAGAAGAAAG AGATGTTTTT 180
AAGACCAGAA TACTCAAAT AATTGATGAA GGATTGNNGA GGTTCATAAT TGNAATAACT 240
TTTAAGTTTC CTGGNTTANT TAACATTCAC TTGNGTGTCC ANAATTGGNG ATAGACNGNN 300
AGGCACANGN TGTCNTN 317

SEQ ID NO:5220

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06230

SEQUENCE DESCRIPTION:

GATCATATAC AGTTCCTTT TTA AAAAGCA ATAAATNCTT GGAATTAGAA A . 51

SEQ ID NO:5221

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06232

SEQUENCE DESCRIPTION:

GATCAAGAAT GTTCCCAA GTTNTGAATA GAGTGTACA ATGTATCAA GANTTGTGAA 60
GCAATGATTC TTTACAATAC AATAAAGTTT AATTATTTAC AAA 103

SEQ ID NO:5222

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06233

SEQUENCE DESCRIPTION:

GATCTCAGAG ATGNTGGAA TTTCAAAAAG CCAAATCAC AGAAGCAGAG TAGGATGGTG 60
GTTGCCAGGG CCTGGGACGT GGGGGAAATA GGGAGATGTT TGGTGTCTGT TAGGAAGAAT 120
GAATAAGCTC TGGAGAGCTA ATGTACAGCA TAGTGACTNN NGNTAATAGA ACCGTATTAT 180
ATACTTGANA TTTGTGAAGA GAGTAGATGT TAANNNNN 218

SEQ ID NO:5223

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06234

SEQUENCE DESCRIPTION:

GATCTGTAC TTACTTCTGT GTGACCTTG AAAGGCTACT TATTCCTCT CTTAGCTTTC 60
TCATTAAAT CAATGAACAA TGCCAAA 87

SEQ ID NO:5224

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06235

SEQUENCE DESCRIPTION:

GATCTCAGGC TGAGCAAAAT NAAACCTTGA TGTTACGGGC TAAATCAAGA GCAGCTTAAT 60
CCTGTTTACA ATGTGAGCTT TTTGTGCGTC TGTGAAATGT TTTACAGTGT TTCTCATCAT 120
CTGTTTCCCA GCAAGGTCTT TNNTTTNCN ACATTGAAGT NCTGNCTATG TATCTNAATC 180
ACAAATGGNT TCATTCAC TN 202

SEQ ID NO:5225

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06236

SEQUENCE DESCRIPTION:

GATCACAAGC GTATCCATNG TGAGGTTCCG TGGATGGAAG CTNATGGATN TNCCTTCCTG 60
ATGTTTCATCT GCCACCTTGC TATTNAATGC ATCCTGTTTA TAACTGTCTT CTAAATATTG 120
AATAGAAATA AAGCATTTGT ACAGTAAA 148

SEQ ID NO:5226

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06237

SEQUENCE DESCRIPTION:

GATCGAAATT GCGGGCTATG GCGCCGAAGT TTTTCGTNAG TACTGGGATA TCCCCGATGG 60
CACCGATTGC NACCGCAAAG CCTACAGCAC CACCAGTATT GCCAGCGTCG CTGACTGACC 120
GCCGCTGCCT ACAGAGTCAC ACTCAATCCT CCGGGCACCT TCCTTGAAGG AGTGGCTAAG 180
GTTGGACAAT ACACGTTTAC TGCAGCTGCT GTCGGGGCCG TGTTTGGNCT NACCACCTGN 240
ATCAGCGTCC ATNTCCGTNA GAAGCCCGGA CGANCNCNTG AACTACTTNN CTCGGTGGCT 300
TTCGCCGGAG GCTTNACTTT TGGGGGNANG GACGTACAAT NTACGGGGTT TGGGGCCGCC 360
GNNTTTGGTN 370

SEQ ID NO:5227

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06238

SEQUENCE DESCRIPTION:

GATCTGTGTG AAGAATGGTA ATNACGTAGT TGNAAAGGAA AATGTACTGT TGTGTGTTTC 60
ATTTGTGTGA TTTCGTACCA AAAAAATGTG TTTGAACTAT ATTGTATGTA ATTTGGAAGT 120
CGTGTTAATA AAACCCTGCA GTTTCAAA 149

SEQ ID NO:5228

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06240

SEQUENCE DESCRIPTION:

GATCAGGCTT TGAAGGCTGG ATTCTATCTA CATAAGTCN TTCAATTCCA CCATGGGNCA 60
GAGCAGCTCC ACCACGTGTG CACTTAGCCA TNGNTGGCAA CAGAAACCAA GAGACACANN 120
TACGCAGGN 129

SEQ ID NO:5229

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06241

SEQUENCE DESCRIPTION:

GATCATTTAG GAAAAATAAT TCTATTTTGA GCTTTTCATT TCTCAGCTGT CCTTNTTCT 60
 NNTTTGATTT TTGACAGCAA TGGAGAATGG GNTATATAAA GACTNCCN 108

SEQ ID NO:5230

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06243

SEQUENCE DESCRIPTION:

GATCAAGAGT TGTCATGCTA GGGAGACTAT TCTGCCTAAA ATTCTGGGGN ACTATTTTGT 60
 GTTTAAGNAT ACTATGTATA TTAAAAGGGT ACATATTTGA AA 102

SEQ ID NO:5231

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06244

SEQUENCE DESCRIPTION:

GATCTTAAAA GTGTTATTTT TGCTTTTATT TTTTAAAAAA GGNNGAGGNT TATTGGCAAA 60

SEQ ID NO:5232

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06246

SEQUENCE DESCRIPTION:

GATCTGCAGA TAGTTCTTTT TCAAAATATT GTTTAGACAA AATAAATTC TTAAATATA 60
 ATATCTCTAC TTCAAA 76

SEQ ID NO:5233

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06247

SEQUENCE DESCRIPTION:

GATCGNTCTG GTCGCAGCTT AGGAACAGCA GACGTGCACT TTGAGCGGAA GGCAGATGCC 60
 CTGAAGGCCA TGAAGCAGTA CAACGGCGTC CCTNTGGATG GCCGCCCAT GAACATTCAG 120
 CTTGTCACGT CNNGATTGA CGCACAGCGG AGGCCTGCAC AGAGCGTAAA CAGAGGTGGC 180
 ATGACTAGAA ACCGTGGCGC TGGAGGTTTT GGTGGTGGTN NNGGCACCCG GAGAGGCACC 240
 CGCGGAGGCG CCCGTGGAAG AGGCAGAGGT GCCGGCAGGA TTTCAAAGCA GCAGCTTTCG 300
 GCAGAGGAGC TTTN 314

SEQ ID NO:5234

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06248

SEQUENCE DESCRIPTION:

GATCAATACC AAAAGACACT TGGAACTTC TTTAGACTT CAGTACGATG ATTGCAGATG 60
ACATGTCTAA TTATGATGAA GAAGGAGCAT GGCCTGTNCT TATTGATGAC TTTTGGAAT 120
TTGCACGCCC TCAAATTGCT GGGNCAAAAA GTACAACAGT GTAGCACTAA AGGNNCCTTC 180
TAGAATGTAC ATAGTCTGTA CANTAAATAC ANCAGTAAAT TGCACAGTCA GNANNNNN 238

SEQ ID NO:5235

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06249

SEQUENCE DESCRIPTION:

GATCTGCAAA CAATGAAGAA TTATGTAATA TATTGTACAA ATGTAAGCAA AGGCTCTGAA 60
ATAAAATGCC ATAGTTTGTG AAA 83

SEQ ID NO:5236

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06250

SEQUENCE DESCRIPTION:

GATCTTAAAT ATCTGCAGC CTAAATCAC TACAAACATT TGCATTNTTA TTATGCCAGT 60
TATTCCAAA ANGTATTGTN ATACATGTCA CTTATGTTT TAAGCTANTA TTGACTGTAG 120
GATAATCTCC TTGTCCCT CAAAATAGTC ATGNAAGTGT ACATGAANNT NTTTTTAN 178

SEQ ID NO:5237

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06251

SEQUENCE DESCRIPTION:

GATCTGAAGA GCTTGCAGC TCTNTTAAAT AGGTTGCTGN ACATGTTCTA AGGTTTGTGA 60
GAACACGTGT GCCTGTTTAA GTGTATTGAT GTTAATANTA TTAAATATCC TAATGATNGA 120
ATGCATTGTA TGGTNTCTN 139

SEQ ID NO:5238

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06253

SEQUENCE DESCRIPTION:

GATCTAAGCC ACAGNGGGGA CTGGAGCCTC GTTTTCCCC TAGGCAGACC TAAATCAAGC 60
 AGCTTACCAC AATAGTGCAT GCTGAGTAGA TTAGTTCCAA GGAAGGGAGA CTGGAATGCT 120
 GGTGTCAAGG AAAAGCCTCC CTCATCATCT AGTCTAAGAC CATAACGGGC AGAAGCATAA 180
 GAGGTTCCAG GGCCATAGGN GANTGAGAAG TAGGGCACAT ATAGGGAGGA AAGAAAAGTG 240
 NAGNNGGGGG ANATCTCCGA NTTTTTTTAC TGCTTGGGAA AAGTGTACTA CATGANGGNT 300
 GCTTNGGGCT TTGCTAACCT GCTCACCGCT AACCTNCCA AGTNTTACC ATCCCAGNG 360
 GTN 363

SEQ ID NO:5239

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06254

SEQUENCE DESCRIPTION:

GATCTGAGGA ACAAATGAT GTCATTAAAT CGGAATCTAA ATGTGACACA AACAACGTGC 60
 CAGCAATACC TGCTTGTGAA ATAATGTTCT GAGCCACAG TGTTCCTGGG TATGTGAGTT 120
 TATATCAAGT GAAAAGGCTG CTTAATTGAC ATTAAAGTTT TGGAATGTAA A 171

SEQ ID NO:5240

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06255

SEQUENCE DESCRIPTION:

GATCATAAGT ATAAATGTCC TCGTTTAATC TTTCCATATT GAGGACAGCC TCTGCATATA 60
 AAAATGTTCA TTGGGAGAAA AATTATTTTT AAAACTAAAT TTTTATAGTA GTCCTCCATT 120
 ACTGGCAATT AAGGAGCAAC CCACAAAATG TCATTATGTG GTTCTTTGAT TAGGCATAAA 180
 ANGTATTGCA AACAGCTTTN CTATTCCTTT GGAATATGAN TCTTTTTAAT GTCTAANGTT 240
 AACCTGCAAC ATATTCTAGT AGGACANGTC AATGTAAATN AGGTAATTNT NGCCTGTNTT 300
 ATACCTNCTG TNGCCATTG GTNCAAATGN NAACCATTN TNAGNCCN 348

SEQ ID NO:5241

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06256

SEQUENCE DESCRIPTION:

GATCAACAAG AGAAATAAAA AAGCCCAAGA GGAAGTGGTA GGGGAAGGAA TTTAAGAACA 60
 GCAATAAGTA AACTCTTAA GTAACCTCAA AAAGAAAATG GTACATTTTG CCAAAGACCA 120
 CTTATACTTG AGAATATGGA AGAATTTGCC TGATACTNNN NGNNGGGGAA AAGAGTCTCT 180
 CCTCTTTTCC TCAAACCCCA GTACACTCAG CCTCTNTGCC CCACCTTCTC CTGACTTTGT 240
 CCTCACTTGC TTCTGCAGTA CATTGGAACC TGNNTTGAAA GAAAGTCTTC CTGANTAAT 300
 TGGAGTTTGT CTTTGNNGNG CAAATTTAGN CCCNNGGNTC ACAAGNTTTC GGGGGTN 357

SEQ ID NO:5242

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06257

SEQUENCE DESCRIPTION:

GATCGGGGAC ATCCTTAGGC TGGTGGCCGG CCGCATCAAG AACACCTTCT GATTGAGCGG 60
 TTGCCATGGC CGGTCTCCGT GGGGCAGGGT TGGGCCGCAT GTGGAAGGGC TCTGAGCTGT 120
 GTCCTCCTTC ATTAAGAGTT TTTATGTCTC GTGTCAGAAA 160

SEQ ID NO:5243

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06258

SEQUENCE DESCRIPTION:

GATCAGACTA AAAACNATAA CACCATAGGT CAAAANAAGT TGTTCTGAGG TTTTTTGAA 60
 ACATTAAAGN TCCAAACAT GACATTTTA AGAATAAATT TGNAATAGAG TATAATTGNN 120
 TN 122

SEQ ID NO:5244

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06259

SEQUENCE DESCRIPTION:

GATCTCCCT CTCACCCCTC CCACCCATTA ATCTCCTCCC AAAAAACAAG TAAAGTTATT 60
 CTCAATCCAA A 71

SEQ ID NO:5245

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06260

SEQUENCE DESCRIPTION:

GATCTGTTGT AATATATGGT GGATATTTTC CTTTAATTC AACATAACC TCTGAAATNT 60
 GTATCTNTCC TTTTNTATCT TACCATTANT TTAAATCTA GTGGATTGGT TTTN 114

SEQ ID NO:5246

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06261

SEQUENCE DESCRIPTION:

GATCAGACCG CTCAAGGTC CCCGTNTTCA CTGTTACCCA GAGGCTCTTG TNACTACCCA 60
 GTTCATTCCC CACCGCTGCC AGTGCCACTG CCAACCCTGT TCACAGGCGN TTCCAGCCCA 120

CTCCAGCCAG GGGAGCAGGG AAGAAGAAGG GGCTCCCTCC TCTTCACATT CCCCCGACC 180
 CCAAAGCCAG AGAAAGCCAG ATGGCACCAG CTGCTCCGGA TGTGCCTGCC CACATTGGGG 240
 GACAGGGCCG GGCCTGGGCT CGGTTCCNAG GTTTGAGCTC TGCAGNCTGT GTCCTGGNGT 300
 GAGGGGGCTG AAGTNAGNCC AAAGGAAGAA CTNAGTN 337

SEQ ID NO:5247

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06262

SEQUENCE DESCRIPTION:

GATCACCTNA TTTTNAAC AAAATATTN TAACAGGAAT GGGTGGGAGT NCTGGTGAAA 60
 AGAGGTGAAA TGTGGTTGTA TGAGCCAATC ATATTTGTAA TTNTTAAAA AAAGTTTAAA 120
 AGGAAATATC TGTCTGAAA CCCCACTTAA GCATTGTNTT NNTATAAN 168

SEQ ID NO:5248

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06264

SEQUENCE DESCRIPTION:

GATCAACAAA GAGGACTTTG TGGCACTGGA GAGGCTTACC CAGGGGATGG ACATTCAGTG 60
 GATGCATGTT NCTGGTCATT CGGGATTAT AGGCAATGAA GAAGCTGACA GATTAGCCAG 120
 AGAAGGAGCT AAACAATCGG AAGACTGAGC CATGTGACTT TAGTCCTTNG GAGAACTTNA 180
 GCCAGCGGCT GTCTTGCTGC CTGTACTTAC TTGTGTGGAA AATAGCCTGC AGGTAGGACC 240
 ATTGCAGTGA TGGGCAGATT GGGTCTTTCA CACGGNGTCA GGCACAGTGG CCTTCTGTNG 300
 NCATGGTNGT TTTATANANA AATNGGTTAA GGTATATAAA TAAAGTNTGG NCCANCTTTT 360
 GNNAAGGNAN GANATGGN 378

SEQ ID NO:5249

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06267

SEQUENCE DESCRIPTION:

GATCANCTAC AGGAAAAGTA AATGTGAACG CAAGCAGAAT GAAACACAGT AAAAGCCGGT 60
 CTAGCCTGCC TGGCCACACT CTCAGCGCCT TGTGAGGATG GGNCANTANA TAAANTCATC 120
 TTTAGTAGAA A 131

SEQ ID NO:5250

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06268

SEQUENCE DESCRIPTION:

GATCATCACT AGCAGATGTC AGTTGCACAT TGAGTCCTTT ATGAAATTCA TAAATAAAGA 60
 ATTGTTCTTT CTTTGTGGTT TTAATAAGAG TTCAAGAATT GTTCAGAGTC TTGTAAATGT 120
 TATTTTAATA ATCCCTTTAA ATNTNATCTG TTGCTGTTAC CTCTTGAAAT ATGATTTATT 180
 TAGATTGCTA ATCCCACTCA TTCAGGAAAT GCCAGGNAGG TATTCCTTGG GGAAATGGTG 240
 CCTCTTACAG TGTAATNTT NCCTCCTGNA CCTTGCTAA TATCATGGCA GANTTNNCCT 300
 NATCCCTTTG TGAGGCAGTT TN 322

SEQ ID NO:5251

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06269

SEQUENCE DESCRIPTION:

GATCAAAAAT AAGATTACAG TTAAAATATT NCTATATTCA GATGGTTTAG AGACCAGGCT 60
 GTAGAATCAG ACAGCCCTGA AATTGTATCA CACANGGCTG TGTTACCCTG TACAAATAAC 120
 TTAGCCTTAC TAAGCCTGTA TTTCTCATC TGCAAANTAG GGNTGNTAAT ATACCTGTNG 180
 NTAAANATGT TTTCATTAAA AANCGTTGGC GCAAA 215

SEQ ID NO:5252

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06270

SEQUENCE DESCRIPTION:

GATCTAAAGT GCAGCAGAGT GGCTGNTGCT GCAAGTNATG TCTAAGGCTA GGAACATCA 60
 GGTGTCTATA ATTGTAGCAC ATGGAGAAAG CAANTGTAAA ACTGGATAAG AAAATTATTT 120
 TGGCAGTTCA GCCCNTTCCC TTTTCCCAC TAANTTTTN CTAAATTAC CCATGTAACC 180
 ATTTNANCTC TCCAGTGCAC TTTGCCATTA ANGTCTCTGC ACATTGAAA 229

SEQ ID NO:5253

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06271

SEQUENCE DESCRIPTION:

GATCGTGAAA GAGGCTTACC CAGACCACAC ACANGTTTGA GAAAAACAAT CCCCATTATN 60
 ACCCATCTAG CAAAGAGGAC AACCCTAAGT GGTCCATGNG TGGATGTACA GTTTGTNCGG 120
 ATGATGAAGC GTTTCATTCC CCTGGCTGAG CTCAAATCCT GTCATCAAGG CNCACAANGC 180
 TACTGNTGGC CCCTNAAAAA ATATTGTTNT NGTCACTN 219

SEQ ID NO:5254

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06272

SEQUENCE DESCRIPTION:

GATCACGCTG AAAGAATACC TTGCAGACAC TTAATCTCTG CGGCAAATGC ATGAAAGTAG 60
 AAGGATGAAG CCAACTTTCC AAAAAGTTT ATGAAATTAC TTCAGTGNGA AAACCTATTA 120
 AATNAANTNC AGCCNTTCTN TAAA 144

SEQ ID NO:5255

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06273

SEQUENCE DESCRIPTION:

GATCCCGGGG ACATGATGCG GGAAATCCGC AAAGTNTTGG ACGCCAATAA CTGCGACTAT 60
 GAGCAGAGNG AGCGCTTCTN GCTCTNCTGC GTCCACGGAG ATGGGCACGC GGAGAACCTC 120
 GTGCAGTGGG AAATGGGAAG TNTGCAAGCT GCCAAGACTN TCTCTNNACG GGGGTCCGGG 180
 TNTN 184

SEQ ID NO:5256

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06274

SEQUENCE DESCRIPTION:

GATCAATGTG GGCACCTAAA AGGGTATGTT AAAATCACCA TTTCTCAGGT CAAAATACTG 60
 TGAATAAGTC TTCAATAGAA TCACTANTGG TTNAAA 97

SEQ ID NO:5257

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06275

SEQUENCE DESCRIPTION:

GATCATATCT ACATGTATGA ACTTAACATG GAAAATGTTA AGGAAGCAAA TGGTTGTAAC 60
 TTTGTAAGTA CTTATAACAT GGTGTATCTN TNTNCTTATG AATATNCTGT ATTATAACCA 120
 TTGTTTCTGT AGTTTAATTA AAACATTTNC TTGGTGTTAG CTTTCTCAG AAA 173

SEQ ID NO:5258

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06277

SEQUENCE DESCRIPTION:

GATCTTCTG GGAGCTGCGC CGGACAGAGT GGGGAGCTCC TAGTTTNTGG GGGGAAGCTT 60
 TGATATCCAT GCCACGTCCA TCCACCCAC CCCTNTTCGT CACGAGCACA ATGGTCTTAC 120
 ATTNATNTN TGTAAAAAA TANAAATAAA TGGAGACTT AACTCAAGCA ANNAAN 176

SEQ ID NO:5259

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06278

SEQUENCE DESCRIPTION:

GATCATTGA ACCTAGGAGT TAGAGGCTGC AGTGAGCTAG AATTGCACCA CTGNATTGCA 60
CCTTGGACAA CAGAGTAAGA CTCCGTCACC AAA 93

SEQ ID NO:5260

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06279

SEQUENCE DESCRIPTION:

GATCAGGAGG CCACCCCTT CTGTGGCACT TCTGAGATGA CAACTTGTTT CACAGTTGGA 60
TGGGGGTGGG GAAGGAAAGA GCGGCCCCAT TATTCCAGAA CATTTTATCC ACACAGGCTC 120
AGACACCCTG TGATGAAGAG TCCAAGAACA GCCTGAGATA AGGATGTCAT TNTNTTTCA 180
CAGNCCCAC GATGGGTTTA TTTTTGGGA CCAAGACATT GGGTCCCTAC ATGTTTTCCC 240
CTACCCTTCT NNGGGAATAA AATATCAAAC ANCCNCANA GNTGTNNTAT TNNTGN 296

SEQ ID NO:5261

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06280

SEQUENCE DESCRIPTION:

GATCTATTGA CTTGTAGAGG TTTGGGACAA ACAGGAATAT AAAGATTATG GAATTGGGAA 60
A 61

SEQ ID NO:5262

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06281

SEQUENCE DESCRIPTION:

GATCACTGCA AACTCAAGG AGGCCCGGGG CAGAGGAAAA AAATTTACCA CCGATGATTC 60
CATTTGTGTG CTGGGAATAA GCAAAAGAAA CGTTATTTTT NAACCTGTGG CAGAGCTGAA 120
GAAGCAAACG GATTTTAAGC ACAGGATTCC CAAAGANCAG TGGTGGCTCA AGCTACGGCC 180
CCTCATGAAA ATCCTGGCCA AGTACAAGGC CAGCTATGAC GTGTCGGA CTGCCAGCT 240
GGAANCATGT GCAGNNCTGG NGTGTCTGAC CCAGTCCCGN CTGCATGTGC CTGCAGCCAC 300
CGTGGNCTGT CTCTTTTTTG TNACCTTAA GTNTTTTTN 339

SEQ ID NO:5263

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06282

SEQUENCE DESCRIPTION:

GATCTTATCT ACTTTCTCAT CTCCATATTT TGTAAAGAT AATATTGCCA GATGTAAAGA 60
 AAATGGTTTA TTCTACCTAA AGAGTGGATA AGGAGAGAAN ATTATGATGA AATAAAAATT 120
 ATAAGCAAAG TTTATTAAAN CTAAATTAA ATGTGAAACA TCACCTTTT CCTANTCAGA 180
 TTTGATATTG CTACGGATAT ATNTTGNTGA TATNGTCACT ATATANNCAT ANGGGGANTT 240
 TNACTNTCTA TTACCCTN 258

SEQ ID NO:5264

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06283

SEQUENCE DESCRIPTION:

GATCTCTCTC CTCTCTGACC TGGATACGCT TTGGTTTCTC AACTTCTCTA CCCCCAAGAA 60
 AAGATTATTC AATAAAGTTT CCTGCCTTTC TGCAAACATA AA 102

SEQ ID NO:5265

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06284

SEQUENCE DESCRIPTION:

GATCTAGATT TGAAAGTAAA TTTTATGAAG ACATTGCCCA TTTTACTTC CTCATTCACT 60
 ATTGTACCAG CATCATAGCT TTATTACTCT AATCCCAGGT AAGTCAAGCC TACACTGCCC 120
 TAGNGGNGC GTAAACCCAG AANTTCATGC TGGCTTAANT AATCTATTTT TGTTTCTNAT 180
 CNTTTGAATN TTTAAN 196

SEQ ID NO:5266

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06286

SEQUENCE DESCRIPTION:

GATCAGCCTG GGCAACATGG TGAGACCCTG TCTCTACAGA AAAGACCTGA AAATTTTAAA 60
 AAAAAGTATA AAGCCAAGCT GTTACCCAGC CACCTTGCTC ACATATTCTC AGGACCTGCT 120
 GAGGTGGTTT CACAGGTCAT AGTCCTCACA TTTGCTCAGA ATAAATATCT TCAAATATTT 180
 AAANNNGGN NANAATNTNT GNN 203

SEQ ID NO:5267

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06288

SEQUENCE DESCRIPTION:

GATCTGGACT ATCCACGTGC TTGAAACTT TTCCCTCAC CCTCCAGCCC TGGAGGCTTT 60
 TGCTGGGATG AATGTTTTTA TAGGGTTTTT GTTGAACAT AAGCTATTTT CTAATATGCT 120
 GCCAGGTACC CTAAA 136

SEQ ID NO:5268

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06289

SEQUENCE DESCRIPTION:

GATCTNGGAC TACNACTGGA CTACTAGCCT CCAGAACTAT NAAATAATAC ATTTCTAATG 60
 TCTAAGCCAA A 71

SEQ ID NO:5269

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06290

SEQUENCE DESCRIPTION:

GATCGGTTTT TGTGGGGAAT CTCCTTATA AAGTTGAAGA ATCTGCCATT GAGAAGCACT 60
 TTCTGGAGTG TGGAAGTATC ATGGCCGTGA GGATTGTNAG AGACAAAATG ACAGGCATCG 120
 GCAAAGGGTT TGGCTATGTG CTCTTTGAGA ATACAGATTC TGTTTCATCTT GCTCTGAAAT 180
 TAAATAATTC TGAATCATG GGGAGAAAAC TCAGAGTCAT GCGTTCTGTT AATAAAGAAA 240
 AATTAAACA ACAAATTC AATCCACGAT TGANGAATGT CAGTAAACCT AAGCAGGGAC 300
 TTAATTTTAC TTCCAAAAC GCAGAAGGNC ATCCTAAAAG CTTGN 345

SEQ ID NO:5270

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06291

SEQUENCE DESCRIPTION:

GATCTCTGCT GTGCAGGTGC TAAGATTAAA CACTAAAAAG AAAGAGAGAT ATATGTAATG 60
 TACAAC TGAC ACTGCCATTT TNCCTTTTGG GAGGAAATGG ACATAGATAA AGAAGATATT 120
 TCTNCGGTTA AA 132

SEQ ID NO:5271

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06292

SEQUENCE DESCRIPTION:

GATCTTCTGC CAAGTAATTT TNTTGACAA TTTTCCTGTN CCAAANTTTA CTCAGTTAAA 60

AGTAAANAA TNCTTTACAC GTTTtaggtT TTAGGACATT AAAAGTATGT N 111

SEQ ID NO:5272

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06293

SEQUENCE DESCRIPTION:

GATCATCTTA CGATATCAAG CTGAAAATTT CACCACTACC TGGACAGTTN CACATGTTTT 60
ACTGGGAATA TTTTTCCTTT NTTTNTGTA TGCTCTGTGC TAGTAGGNTT GATTCA 117

SEQ ID NO:5273

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06294

SEQUENCE DESCRIPTION:

GATCATATTC ATTATGAAAG GTCAAGCAAA GACAGCAGAN TACCAATCAC TTCATCATTT 60
AGGAAGTATG GGAAGTAAGT TANGGAAATC CAGAAAGANG CCAAGATATA TCCTTATTTT 120
CATTTCCAAA CAACTACTAT GATAAATGTG ANGAGGATTC TTTTTNTTG TGACCTATAA 180
TANTNTACA NGCTTTCATG CATTTACTTG GTCCTAAGCA AATTANNGC AN 232

SEQ ID NO:5274

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06295

SEQUENCE DESCRIPTION:

GATCAAGTAT AATGTTAGCT GCAGGTTTTT AATAAATACC TTAATTCAGT TTGAAA 56

SEQ ID NO:5275

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06296

SEQUENCE DESCRIPTION:

GATCCTGAAC ATGTGCTGAT TTNAATTGTG CTATATAGTA TATAAANTAA AATANTTTTG 60
GTATTTCTGC AACGTGACCT GATAATNAAT CTATTCATCC TGAGNAAGCT ATACTTCTGT 120
CCNTN 125

SEQ ID NO:5276

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06297

SEQUENCE DESCRIPTION:

GATCATTGGT TCCANNCACA GGTNTAGTAA TNNTGGGTAC TTAAAGGTTT GGAGCACTTA 60
 CAAGGCTGTG GTAGAATCAT ACCCCATGGA TACCACATAT TAAACCATGT ATATCTGTGG 120
 AATACTCAAT GTGTACACCT TTNACTACAG CTGCAGAAGT GTTCCGGNTA GACAAAAGTTG 180
 TGACCCGGGG NNCTCTGN 198

SEQ ID NO:5277

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06299

SEQUENCE DESCRIPTION:

GATCTCAAGT TGTATAAAC CAATAAATTT GTGTTACTGC AGTAGTAATC TTATGCACAC 60
 GGTGATTTC TGTATATAT GCAAAGNAGG CAACTGTTTT CTTAGTTACA GAAGTTTCAN 120
 GCTTCACTTT TGTGCAGTAG AAACAAAAGT AGGCTACAGT CTGTGCCATG TTGATGTACA 180
 GTTTCGAAA TTGTTTACA AGACTTTGAT AATAAAACCC TTAANCTTAA A 231

SEQ ID NO:5278

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06300

SEQUENCE DESCRIPTION:

GATCAAGNCG CATAGCCTTT ATTCAGGGGG CCTATAAACC CTTCAGTTC TTGCCCCAGG 60
 GCTGGCCTGC TAGCGTTCA AATCCCAGG TGTCCCTAAT TTNAGAAGTA ACCTTTTGGA 120
 ATAGCATTAG ACCCTGGCTG TCCCTCCCC ACCAAATAAA CATGATATTT CATTCTNAAA 180

SEQ ID NO:5279

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06301

SEQUENCE DESCRIPTION:

GATCAAGNNT ANTGCAGCCN TTCTTTTCCT ATTTCTTTT TTNAAGGGTT AGTATTAACA 60
 AATGGCAATA AGTAGAAAAG TTAACATGAA GATTTTAGAA GGAGAGAACT TACAGGACAC 120
 AGATTTGTNA TTCTTTGACT GTNACACTAT TGGATGTN 158

SEQ ID NO:5280

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06302

SEQUENCE DESCRIPTION:

GATCGAACAT NACGTGGTGA TGAAAGCCAN CAGCAGCCTA CCCAAGAAGC TGGCACTGCT 60
 GAAGGCCCCA GCCAAGAAGA AAGGGGCAGC TGCCGCCACC TCCTCCAAGA CACCTTCCTG 120

AGGACGCTGG CCCAGTGCA GGCCAACATC NCACCCCTA CCTCCATATG GGACCTTGCA 180
 GGTAAATCCCA CAGGCTGCAC TGTCAGGGGG GGGACCCTGT CCCCAGCAC TGGGCTTCAC 240
 CTAGAACTTC AGTGGGGGCC AAGGGTGCTG AGAACCCAGC AATGNCCAGG ANGATACAGT 300
 CACTAAACTT CATCTGTCCC CGTGCCCTT CCCAGGTCCT GNTTCACAGG TTTAACCAG 360
 NACANTAAAN CCTNN 375

SEQ ID NO:5281

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06303

SEQUENCE DESCRIPTION:

GATCAGGATG AGATTTAATG CCCATATCTT ACCAGTTCAG TAATCTCCAG AGCCATTCA 60
 CCCTTTAGAG TGAGTCACAT GCAGGGAGTG TGAATGTCAG AGGTGGTTTA TTATCCAGTC 120
 TGCCTTACCC TTAATCTGTT CACAGATATT TATTTACTAA TGCTTTTTTT TTCTTAAGAG 180
 TTATGGGATA GGAAATGAA GTGTTTGCTC TTCATTTACT AAATGATTGT AAATTGAGT 240
 TTTTCATCAA AATAAAATTC CATTGTTTAA AA 272

SEQ ID NO:5282

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06304

SEQUENCE DESCRIPTION:

GATCCAAGGC CACAAGTAAG GCTATGGCTC TAATTCTAGA AGACAACCTT CCAAGATGCC 60
 TGGCAAAACC ACCTCCCTGT GCCACACAGA CACACTAGGC CTGTGTATTT ATTTCCCTT 120
 CAAAGCAGAC TGAGGAGGGA GGAGACGAGG TTCTCTTGGC ATCACTTTCT CCCTGGCTGC 180
 AGAACTAGAC ACCCTTGAAG ATTTGGCTG GGCCAGTNAG ACTGAAATCA AGAAAAACAG 240
 AAGGGATGTG CAGGGTGGGG GGGTNCACCT CCTGCTCCCA TGTCAACCCC CAGGGCCTCC 300
 AGCGTGCAGA CGCGTGTCTT ANTTNATCTG CTCCCACGGA TGANCCTGGT CTTCAATGGG 360
 TTAGCAGNNG NGAGATNTN 379

SEQ ID NO:5283

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06305

SEQUENCE DESCRIPTION:

GATCCTCTGA AAAGGCCAG AAAAATAGCT CAGTTCAAAT ACAATGTTCT AGGACAATTG 60
 GAATATAAAT ATTGTCCAAA AATATAATTA AAAGAAAAAA GTTTAGCACT GTGTAAAGTA 120
 AGTGTTAACT GAGGAAGTCC CAAAAAGGTG CTGTCACTTT AAGTTCCTGGA CTTGGGGTTC 180
 TTTGTATTG TAAACAGCAA NGCATTGTG TTTGTTGTC TATTTGTAAA GCANCCACCT 240
 TCCTTATTGG NAGGNGANAA NNNGGGTNC ATNCATGTNA NACTTGCTG CAGCATTNA 300
 TATGTTTAT TTTGTGTAN GCTTTTGTG GCATCGTGN CACATTATT GTTACCAATG 360
 GACATGGGT CTTGTN 377

SEQ ID NO:5284

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06306

SEQUENCE DESCRIPTION:

GATCGTAGTG TTTTAAATA AACACAGTCC AGACTCAAAC GGAGGAAGCC CACATATTCT 60
ATTATAGATA TATAANTANT CACACACACA CTTGCTGTCA ATNTTTTGAG TCAGTGCATT 120
TCAAGGAACA GCCACANAAT ACACACCCNN N 151

SEQ ID NO:5285

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06307

SEQUENCE DESCRIPTION:

GATCAACTGA GGAAACTCCA GGCCATGGTG ATTGANATAT CAAACAAAAC CAGCAGCAGC 60
AGCACCTGCA TCTTGGTCCT ACTAGTCTCC TTCTGCCTCC TCCTTGTAAC TGCTATGTAC 120
TCCTCTGACA CAAGGGGGAG CCTGCCAGCT GAGCATGGNG TGTGTCCCG CCAGCTTCGT 180
GCCCTCCCA GTGAGGACCC TTACCAGCTG GAGCTGCCTG CCCTGCAGTC AGAAGTGCCG 240
AAAGACAGCA CACACCAGTG GTTGGACGGC TCAGACTGTG TACTCCAGGN CCCTGGCAAC 300
ANTTCTGCCC TGCTGCATNA CNGAN 325

SEQ ID NO:5286

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06308

SEQUENCE DESCRIPTION:

GATCTGCCTC CTGGGAAGGG AAGGGGCCAA TGTCAGCCTC CAGGTGATTT CTTAATCTG 60
ACATTACAAA GAGACCAACA GACTGCCAAT TCTACCACAT TCCCCTGGTG GGTACTCGAC 120
TATGTAGTTT TNTCTATGCT TCTGGTCAAC TCTGACACAT CTTGGAATTC TTGTAATAAG 180
AAAAGAAATT TTTATACTTT TAAA 204

SEQ ID NO:5287

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06309

SEQUENCE DESCRIPTION:

GATCCTCAAA CAGTCGGACC AGATGACAGC CAAACTCTGC TAACCCGGGA CTCCTTGCCA 60
TGGACTTTTC CTGTTGTTGT ACACACACAA CAGAACAAAA TGANGCAAAA CAAAACAAAA 120
AAACCCACAA AANTTTGTAA AATGTAATTA ATATTCAANG AAAAGGNGGA AANTCTTCAT 180
TTGTTGGAAG TGAAANCATT CTAGCAACTG TAANNANN 219

SEQ ID NO:5288

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06310

SEQUENCE DESCRIPTION:

GATCTTAAAA TTCATCTAGA TTTCAAGCAT TCAGCTGACT TGCCTCATAA ATGTAGTGAC 60
TGCTTGATGA GGT TTGGAAA TGAAAGGGAA TTAATAAGTC ACCTTCCAGT CCATGAGACA 120
ACTNGATTAT TCTCTNTAAC TTACAGAATG TTAGTNTAAA ATAATAAATN CATCCTTNTT 180
TTGGAGATGA TTAAATGGAT GATTGTAAAC ACAACTTATG AAATCTGCCT NTAACAAGTA 240
NCTTTNTTAA ATNNTANNN 259

SEQ ID NO:5289

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06311

SEQUENCE DESCRIPTION:

GATCTTATTG GCTGATGGTG TTGTTGAATT CTATATCCTG TTGATTGCT GTCTAGTTGT 60
TCTATCAATT ATTAAAAGAG GAATGTAAAT GTTCCAAA 99

SEQ ID NO:5290

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06313

SEQUENCE DESCRIPTION:

GATCAAATAC TTAAAGGAA AAAATGTTGG ATTTATAAAT NCTATTTTTT ATTTTACTTT 60
TATAATAAAA GGAAAAGCAA A 81

SEQ ID NO:5291

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06314

SEQUENCE DESCRIPTION:

GATCTGAAGG CCGTTCCAAG CGAGGGTGCT TCTGAGGACA CTGAGAAGAG TTTTGCCATT 60
CTGAAGAGGC GAGCCTGTGG AACTNTTTAA GGCCTGTTC CCAGAAGAAT AAAAGTTTCT 120
CATTATGGCA AA 132

SEQ ID NO:5292

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06315

SEQUENCE DESCRIPTION:

GATCACTCTC CCTGACATCC ACCTGTATGA CTTTGTACCC AAATGCTGTC TTCTCTTTCT 60
 CCAATCAAGA AATAATAATC CCTCGAGTTT AAAAAACACA AA 102

SEQ ID NO:5293

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06316

SEQUENCE DESCRIPTION:

GATCTCANCT TCATGCCAGG CCTTGGGTTT GACAAACATG GCAACCGACT GGGGAGGGGC 60
 AAGGNCTACT ATNATGCCTA TCTGAAGCNC TGTTTGCAGC ATCAGGAAGT GAAGCCCTAC 120
 ACCCTGGCGT TGGCTTTCAA AGANCAGNTT TNCCTCCAGG TCCCAGTGAA TGAAAACGAC 180
 ATTGAAGNTA GATGNN 196

SEQ ID NO:5294

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06317

SEQUENCE DESCRIPTION:

GATCAAGAAG TTTGTGTACA CATAATCTCA TTTNAGATA TATAACTATT TTTNTCTTTC 60
 AGAAGTGAAT CAAAATATTT CAAAATGCTG TCTTATGAAA CTACAATATT CTCACAGATT 120
 AGAAAAGTTT TNCTGTAAAA GTCAGATAGT AAATATTNA GGTTTTGCAG TGTCTNTTGC 180
 ANCTNCTCAA CTTTCTACT GTNGCACANG NGTAGCTGTG GTACTGTGCA AATNAAN 237

SEQ ID NO:5295

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06318

SEQUENCE DESCRIPTION:

GATCACTACC TTTTTTCTC TNATCTGCTG CCATNTGAGA TGTGGCTTTC ACCTTCCGCC 60
 ATGATTGTAA GGCCTTCCCA GCCCGTGGN CCTGTAAGTC CANTAAACCT CTTTGTAAA 120
 TTTAA 125

SEQ ID NO:5296

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06319

SEQUENCE DESCRIPTION:

GATCTTACAG ACTGTATCAG TCTAATTTTT AAATTTTAAG TTATTTTGTA CAGCTTTGTA 60
 AATTCTTAAC ATTTTATAT TGCCATGTTT ATTTTGTGTTG GGTAATTTGG TTCATTAAGT 120

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ACATAGCTAA GGTAATGAAC ATCTTTTCA GTAATTGTAA AGTGATTAT TCAGANTAAA 180
TTTTTTGTGC TTATGAAA 198

SEQ ID NO:5297

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06320

SEQUENCE DESCRIPTION:

GATCTAATTT CCCTNTTCAC ACAAACCTTA CACTTTAATC TGATGATTGG ATATTTAATT 60
NNAGTGAACA TCATCTTGT AGCTAACTTT AAAAANTGGA TGTAGAATGA TTAANGGTG 120
GTATGATNN 129

SEQ ID NO:5298

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06321

SEQUENCE DESCRIPTION:

GATCTGTGCC ACTTGTGTCA GAGAAGAAGA AACACGTAGN GCAAGTTGTA AAATAATTGG 60
TATTCCTAAC AATCCTGATG TATAATTNTT TGTTACTTTT GNTTTGAGAA CTCTACANAT 120
AAAAGTGCTG GGACTAGATT AAA 143

SEQ ID NO:5299

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06322

SEQUENCE DESCRIPTION:

GATCTCTTCG ACTCCTACGA CCTTGGGGAC CTGTTGATTA ATTGAGTGGC CCTGCCTGCC 60
CCCAGCAGCC TGCCCCGAC TCTACCTCCT CACAGACAGG CTGACAGCCC CTCTGCCTGC 120
ACAGGGACAT TGGACACTAG GTGCTGCCCT CAGGGCATGG GGTCTCCTCG CCTTTCCTGC 180
CCCAGCCGGC AGAAGCTGTG TGGGGNGNNA TGAATGGTAC GGGTGAGGAG TGGATAAGGG 240
GTGGTCCTCA CCTNCTAAT GGAAGCTGGG CTTAGGGAGG CCCATNCAGT CTTCTGACTT 300
CTNGACCTCT NACAAGAAGG NTGCAGGTGA GGTN 334

SEQ ID NO:5300

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06323

SEQUENCE DESCRIPTION:

GATCTGGAGC CAGCTGGCTT TGCTCCGTTT CCTGGCTAGT CTGTGCCTGG TCACCAGGGA 60
GGCTGAGTGA GGGGCTGTGA ACAGTTGCCG GAAGCACCCC CTCCCTCCCC GGGCCGTGCA 120
GCAGTGTCTG AGCTGTAGTG AAAGTTTCAG GGCCTGCAAA AGAAGAGGCT TGGGCACAGG 180

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ACTGACCATN GCTCCAGGGG TTTAGGACCC CCAGGNCNGT GAAGGTGGGA GCAGCTCACC 240
 ACCTTTNACG CAGGCTTTGG TATGTTCTCT NAGGCTTAGT TGATTTTGGG CCCNAAANCA 300
 AATNCAAAAAG GTTTCCTGGGC CAACCTTTTG TTAANTN 337

SEQ ID NO:5301

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06324

SEQUENCE DESCRIPTION:

GATCACAGCT CCAGGACCAG TGCAGGCTGG CTGCCCTCTT TTGGCCGCGT CTGGAATAAT 60
 GGACGCCGCT GGCAGTCCAG ACATCAATTC AAAACTGAAG CTGCAGCAAT GAAGAAGCAG 120
 TCACATACAG AAAAAAGCTA ATCATGCTCT CTACCAACTA CCATGAGGCT AGNAAGCAAA 180
 GTCAACAAAC CCCTATTATA CCTTCCACCA AATTCTTTAT CATTGTCTTT CTTAGGAAAC 240
 AGNCATACTC ATTCATTTGA TTTANTAAGG TTTTATTTT CCAANGTNG NTGTGGNTGN 300
 TTNGGNNNNN TTGTGGTGGT TGNGNN 326

SEQ ID NO:5302

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06325

SEQUENCE DESCRIPTION:

GATCTTTNAT TTACCTGTAC AGGAGTGTA ACTTTTNGT GNTTTTATTT TTCAATTGTG 60
 AGAACCACTG ATTGGTATGT TCAACAAATT TGTGTATACA AAGAAATGGA TAAATCACTG 120
 CTATATANGG GAACTACCT TAGGAAAGAN TGTTACTGA ATGTTTATNN NATN 174

SEQ ID NO:5303

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06326

SEQUENCE DESCRIPTION:

GATCAGTGAT ATTTGATGTT AGTGTGTAC TATAGGGTGC CAATAACTCT GCCTATACAA 60
 GATGGTGTAC TTAATCAATA AACGTGTATT CTGACTGCCT TAAA 104

SEQ ID NO:5304

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06327

SEQUENCE DESCRIPTION:

GATCCTTCCG TCTCAGTCC CCAACCCAG TAGCTGGGAC TACAGTTGCA CATCATCATG 60
 CCTGGCTAAT TTTTNNATTT TTGTAGAGGT AGGTTTCACT ATGTTGCCCT GGCTGGTCTT 120
 GAACTCCTGG GCTCAAGTGA TTCACCTGCC TCGGNCCTC AAAGNGCTGG TGTTTACNGG 180

CATGAGCCAC TGTGTCCGAC CCANACCTAC TANTGTAAAT NGANNTTTN TTAACNN 238

SEQ ID NO:5305

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06329

SEQUENCE DESCRIPTION:

GATCAACAGA GTGAGACCCC TGTCTATATA TTNNTTAAAT TTAAAAATA AAAGANTAAA 60
ATTGTGTAGC TCAGTATAGT ATCAAGATTA ATCTGCCTAC TCACATTCT ACACTTTATA 120
NNANTGTAAT AN 132

SEQ ID NO:5306

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06330

SEQUENCE DESCRIPTION:

GATCCAGCCA TNACTAACCT ATNCCNNTT TGGGGAAATC TGAGCCTAGC TCAGAAAAAC 60
ATAAAGCACC TTGAAAAAGA CTTGGCAGCT TCCNGATAAA GCGTGCTGTG CTGTGCAGTA 120
GGANACATC CTATTTATTG TGATGTTGTG GTTTTATTAT CTAAACTCT GNTCCATACA 180
CTTGATAAA TACATGGATA TTTTATGTA CAGAGGTATG TCTCTTAACC AGTCACTTA 240
TTGTNCTCTG GCAATTTAAA NGANNGTCAG TAAATTNTT TNCTGTNAA AGN 293

SEQ ID NO:5307

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06331

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGC CTTGAGGATA 60
ACCTNCACTG TAATAGCCTA AACACANCTC TAATTTACTT ACAGCCTTAT GTTTTGTAT 120
TGNCTTGGTA GACTAGGTAA TTTTTTTTA AAGGNCAGGN GACGGNTATT TTAAAGNCCA 180
ATTTGTTCTA CGTAGCATNT TAACTAGTTT TNNTGCCAGC NATGTTGN 228

SEQ ID NO:5308

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06332

SEQUENCE DESCRIPTION:

GATCCCTGAA GTTGCCCTGG TCTCTGCACC TTCTAAACCT AGTTCTTAAG AGCTTTCCAT 60
TACATGAGCT GTCTCAAAGC CCTCCAATAA ATTCTCAGTG TAAGCTTCTG AAA 113

SEQ ID NO:5309

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06333

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTCTCCCGT CACCCNCAGA TGGGGCTGTC TAGTTGCAGG AAAACAAGCT 60
CAGGGCTCCC ACTGAGTCTC TGTGATNGTG AGTTGTAGAA TTATTTAANN ATATGTTACA 120
ATGTAATANT AGTAGAANTA AAGTGCACAN TAAN 154

SEQ ID NO:5310

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06334

SEQUENCE DESCRIPTION:

GATCTCTTTC CCTGTCTTGG AGGTGAAAAG TNATATCTAA GGNTNTGTTT GCAGTGACCC 60
CTAGTTTGGG GTACACAGAC CAGTGTTCCT NATTGACAGT GTTCAATAAG GCGCCGTCAT 120
TCTCGCCAGT NTNTTGTGT NCTTAATGGG CTCCTCCTTG AANTGTGTGT GTGTTTGTGT 180
CAAGAGGAGT TNGTGTCTT GGTAATAAA GNTN 214

SEQ ID NO:5311

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06335

SEQUENCE DESCRIPTION:

GATCTCTNCG ANTNAATTC AATCTAGGGA AAAATGGCAG AGAAGTAAAT GGATGTNCTG 60
GTGTCAATAG ATATGAAAGT GTTGTTGGC GACTTGCAA TCAACAAAGT TAAAAAATC 120
GAATNNN 127

SEQ ID NO:5312

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06337

SEQUENCE DESCRIPTION:

GATCGAGAAT NACNATNTT TGTAATGGA AATACCACTA CTAAAGACAG AATGCTATAA 60
ATAGAAA 67

SEQ ID NO:5313

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06338

SEQUENCE DESCRIPTION:

GATCTTCTGT ACTTCTGTCT TCCATAGGAC AAATNATAAG TACTACATAC CTCATCTCTT 60
 GGGTTATNAT TGTAGTCTTG CATTCTATGAT TATNAATTTA AAAATAAATA CCAATTATGG 120
 AAATTGTAAT 130

SEQ ID NO:5314

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06339

SEQUENCE DESCRIPTION:

GATCTACATN AGGAAAAGTA TAAGCCCCCT CCCTAATGGC CGCTGGGNGG TGAGGGCGGT 60
 GTGTTGTATG TCTTTGGGTG TTTGTTNNTT NATAAAGCAT ATAATN 106

SEQ ID NO:5315

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06341

SEQUENCE DESCRIPTION:

GATCTNAAAA AGAGAGAAGA AAATAAAAAAG TATTATTTAT ATGTCAGTGC CAACTTTGAA 60
 GGTAAAAACAG TAGTAGTAAC TTTTGGGAGA AATTCTAAAA ACTACTTTAA AAAGAAGCGT 120
 GCACATAAAA TAANTATCTT TCTATCCAAG GCTTGTCATT TNATATGCTT TNNTTGTAAT 180
 TTTAANATNN NGCTN 195

SEQ ID NO:5316

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06343

SEQUENCE DESCRIPTION:

GATCTAATTA CTTATAGATT CTGTAGTCTN GNGAAGGNGT GGGTGACGTG ATGAGAGGTT 60
 TGAGAAATGG GTGAAATGAA ATGGGGGGAT ATGTAGGTCA AATCANATNA AAGATGATTT 120
 TTTTATATGT AATAAN 136

SEQ ID NO:5317

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06344

SEQUENCE DESCRIPTION:

GATCAGCTTA AGNNTTACG GCTGGTGGAT AGACACTCGA GACCAGAAAT CATATTTTNN 60
 CTGAAAGTAG ATGATTTACC TGAGGATAAT CAGGAACGTT TTAATAGCCT TTNCTCTCTA 120
 AGGGAGAAAT GGACAGAAGA AGATATTGCT CCATATATTC AAGATTTGTG TGGAGAGAGN 180

SEQ ID NO:5318

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06345

SEQUENCE DESCRIPTION:

GATCGCGGTA TATAGAGATA TGCATTTTAT TTTACTTGTG TAAAAATATC GGACGACGTG 60
GAATAAAGAG CTCTTTTCTT AAA 83

SEQ ID NO:5319

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06346

SEQUENCE DESCRIPTION:

GATCTCCTTA GGTGATGCAC AGTCCAATA CCTGCTAACC ACCGCCGAGA ACGAGCTGGG 60
AGTGGTGGTA GCCACAGTG AGTCAGGTAT CCAGATGGTT CCCATCAGCT GGTGTGAGAT 120
GCAGTGCCCT AAGACCCACA CTAAAGAATT CCGGAAAGTA GCCCGNGTAC AACCCGAATN 180

SEQ ID NO:5320

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06347

SEQUENCE DESCRIPTION:

GATCAGAGAA TCACAAGAGC AGCAAATGTG GTTTCATCAA GTGGGAAGAA AGCAGCAATT 60
TAAAATANCT TTTTGGNGA CTGANTTGAG TAATAATAAA NCTTCAGTCT TTCGCTAATN 120
ATANTN 126

SEQ ID NO:5321

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06348

SEQUENCE DESCRIPTION:

GATCTAGACG CCCCCAAATC CTTGAGATGT GGGTATAGCT CAGGGTAAGC TGCTCTGAGG 60
TAAAGGTCCA TGAACCCTGC CCCACTCCTG TCAGCCCCTC ATCAGCCTTT TCAGCAGGTT 120
CCAGTGCCCTG ACTTGGGATA GGACTGAGTG GTAGGAGGAG GGGGAGTGGA GGGGCATAGC 180
CTTCCCTAA TTCTGCCTTA AATAAACTG CATTGCTGAT TCAAA 225

SEQ ID NO:5322

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06350

SEQUENCE DESCRIPTION:

GATCAGCAAA TTGTTATNTT AAAAAGTTTT CTTGTTTAGG CAATTGGTA AGTGGTTTCT 60
 AGTTATAAAC TAGCCACTGT TGATTAACCT GAGAAGGTGA AGCAGGGGAG TTCTGAAGAG 120
 ATTACCTAGA GCTACTTAAC CCTAAGTTAA GTAAAATTTT CACTTTCATT CTTTTCATT 180
 TCTCATAAAC TGGTTGAAAA AACACTGTAC TACCAACAAA GGTGTCAGTT GCTTGTGCTG 240
 CCCTGTCTAT GTTATGCTCT GAATAGGTCT CGGTAAAGAT TATATGGAAG TACTATAAAG 300
 NNTACATAAG GTAAAATACT AGTCAGANAG GGTTCAGGTT N 341

SEQ ID NO:5323

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06351

SEQUENCE DESCRIPTION:

GATCTGAAGT NCTTCCATTA TATCTATATC TGTATATGNA CATATATGTG GGTGTGTATA 60
 TATATGNGTG TATGTATATA TATACAATTN CCTGAGAACT CACTNTTTTT TGTGAATTN 120
 CAATAGTGTT CGCCATGTTT TCCACCAGNA TGTATAN 157

SEQ ID NO:5324

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06353

SEQUENCE DESCRIPTION:

GATCAAGTTT TGATGAAGAT GTGAAAAACN GTTGGGCAGT ACTACTCAAG CTGAACCCCA 60
 TGCATCAGAG AAATTACACT TTTATATNTC CAAA 94

SEQ ID NO:5325

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06354

SEQUENCE DESCRIPTION:

GATCTGCCCT NCTCAGCCTC CCAAAGTGCT GGGATTAGAG GCGTGAGCAC CATGCCTGGC 60
 CAGGTCTTNC TAACTAAAAA ATAATAATAA TAATAATAAA AAANAAAAAGA NGATACTTGC 120
 AAAATAAA 128

SEQ ID NO:5326

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06355

SEQUENCE DESCRIPTION:

GATCAAGAGT ATTNCTNTA GCTAGCTTAA AAAGAAAACA TATATTTAAT GTAAAANCAC 60
 ATACATGGCC AAATGCAATA CTGANGAGAC AATCATCCTG TATCTTTNAT GGTTTTN 117

SEQ ID NO:5327

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06356

SEQUENCE DESCRIPTION:

GATCAATGCG CTAGTGCAGG AGCTCGGCTT CTACCGCAAG GCGGCGCCCG ACGCGCAGGT 60
GCCCCCGAG TACGTGTGGG CGCCCGNAAA GCCCCAGAGG AACTTCGGA CCACGCTGAC 120
CTNTAGGTCC GGGGGCGCGG CGGANCTGGG ACCTACCTGC CTGAGTCCTG GAGACAGAAT 180
GAAGCGNTCA GCATCCCGGG AATACTTCTC TTGCTGAGAG CCGATGCCCG TCCCCGTGGC 240
CAGCAGGGAT GGGGTTGGGG AGGTTCTTCC AACCGACTT TTTTCCTTC CNCAAGNTCC 300
ACTAAATTT CCCTTCTGCN TTAATAAAAA AANN 334

SEQ ID NO:5328

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06357

SEQUENCE DESCRIPTION:

GATCAGCCAA ATTGGGCGGC CACCCCGNC TCCACCACTT TCCACCATCA GCTGCCAAAC 60
TGGTCCCTCT GTCTCCCTGG GGCCTTGGGT TCTGTTTGGG GGTGATGACC TTCCTAGTTT 120
CCTGACGCAG GGGNATACAG GGGAGAGGGT TGTCTTCCC CCCAGCAAAT GCAATAATGC 180
CCTCACCCCT CCTGAGAGGA GCCCCCTCCC TGTGGAGCCT GTNACCTTCG NATTTGACAC 240
GAGTCTGCTG TGAACCNCGC ANTCTGCTTC NCACCTNCNA TCTNTCCTNC CAGGGCCATN 300
CCTGGGCCAG AGCAGGAGGG GAGGGAGGTN 330

SEQ ID NO:5329

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06358

SEQUENCE DESCRIPTION:

GATCAAAAA NTGTGGGTTT ATTTCTGGAG TCTCTGTTCT ATTGGTCTAT ATGTCCGTCT 60
TCATGCTGGT ACTATGCTGT TTTATTTACT GTAGCTTTGT AATATATTN GAAATCAGAA 120
GGTGGGATGC CTTCAGCTTT GTNCTTTTTC CTCAAAATAA AAAATNCTTT TGAAA 175

SEQ ID NO:5330

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06359

SEQUENCE DESCRIPTION:

GATCAATCA GAGTAATTTG GATATTCATC ACCTCGAATA TTTATCTTTC CTTTGTGTTG 60
GGAACATTAT AATTTTCCTC TGCTAGCTAT TTTAGAATAT ATAATAAATN ATNGTCCCT 120
AAA 123

SEQ ID NO:5331

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06360

SEQUENCE DESCRIPTION:

GATCAAAGCC AGCCACCCCC ACCCCAACAC ACTCGGTGTC CCTTTCATCC TGGGCCTNTG 60
TGAATCCCAG CCTNGGCCAT ANCCTCAACC TCAGTGGGCT GGAAATAACA GTGGGGNCCC 120
TGTAGCAGTG GCAGAATAAA CTTAGATGTT NTNACAGGAA A 161

SEQ ID NO:5332

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06361

SEQUENCE DESCRIPTION:

GATCNTCTCA GNGANGNCGC TTNGGTCGCA GTTTtagggg GTTCTCGGTT TGCAGGAACC 60
CTGGGTGCAG GTTCGCAGCC CTGTCAACCA GCTCCGAGCC GGCAGCGAAA CCTGAAGTGG 120
ACCCTGTGGA AAATNAAGN 139

SEQ ID NO:5333

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06362

SEQUENCE DESCRIPTION:

GATCTNCTCA CCCTCGGTGA NAACAGTGTC AGCCATGCAA GCAGGACAGA ATGGTGACTG 60
GGTGCCCTTG GTGAGCTGTG TATTTCTAG NAGGTAGAAA ACTGTGGGAA ACTGTGGCTA 120
ATAAAACTA AGTGTGAGCG TCAAA 145

SEQ ID NO:5334

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06363

SEQUENCE DESCRIPTION:

GATCTTAAAT NACCTATTTT TAATGTGATT CATAACGTT TTNACTTAG TGGTTTAAAA 60
TATGAAAGTA TATAACACA TTACCAACA CTTTGGGGTA GGAGAAGTAC GCTTAGCATG 120
TCTGTGTCAT ACCTAATTTT TTTAAAGCTA TAATGAAGT ATACACATCA ATTTANNNG 180
NGGTTTTATT CTTTCAATGA ACACTGTATC AAAATTTTTT NATGANGTAA TGTTAGTCTT 240
TGTGGTCAAT AGTTATTGGT AATACTACTA GTAATATGGG TNCATGGCTA TAAGATGCTT 300
TAGCTTAGTG GTCAGTTGTT ATNCTAAGGG GTTTNAATCN AATTNGGTNG N 351

SEQ ID NO:5335

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06364

SEQUENCE DESCRIPTION:

```
GATCACAAGT AGAGAACTTG TTTCTTTTCA CCCCTCTTGC TCCTCCCCGG AGTTATGAAA 60
AATTTCAAAC CTGCCAAAAG TTTGAAGTTT ACAACAAATA CCCTCCAACG TTTGGNTTGC 120
CTCCCTCCCC CTCTCTCCC TTNCTCCCTC TGATTTCTTA CAGAACCACG CTTTCATGAC 180
CATGCCCCGG AACTTCACGC TGGCGCGGTG AGGTCCTGCG CCTCCGNTTN CNGCACACAC 240
GTGCTTCTNA ATAGCTGCAG GCTATTTTCA GAGAGGAATT TGCTCACGTT AACATNGCTG 300
TTCCCAAATG CCAGGCTGNT TTTAAGTGGT TTCCTAATTT ATAAAGGN 348
```

SEQ ID NO:5336

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06365

SEQUENCE DESCRIPTION:

```
GATCTCAATA GTCAGTTACT GATGCTCCTG AACCTATGT GTCCATTTNT GCACACACGT 60
ATACCTCGGC ATGGCCGCGT CACTGCTCTG ATTATGTGCC CTGGCCAGGG ACCAGCGCCC 120
TTGCACANGG GCATGGTTGA NTCTGAAACC CTCCTTCTGT GGCAACTNGT ACTGAAAATC 180
TGGTGCTCAN TAAAGANGCC CATGGCTGGT GGCATGCAAA 220
```

SEQ ID NO:5337

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06366

SEQUENCE DESCRIPTION:

```
GATCCCAGCC ATAAAGTACC TGGGATGAAA GAAGTTTTTT CCAGTTTGTG AGTGTCTGTN 60
AGAATTACTT ATTTCTTNC TATATTCTCA TAGCACGTGT NTGATTGGTT CATGCATGTA 120
GGTCTCTTAA CAATGATGGT GGGCCTCTGG AGTCCAGGGG CTGGCCGGTT GTTCTATGCA 180
GAGAAAGCAG TCAATAAATN TTTGCCAGAC TGGGTGCAGA ATTTAAA 227
```

SEQ ID NO:5338

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06367

SEQUENCE DESCRIPTION:

```
GATCTTNACT CTTGTTTCCT TTGTCCTTTT NTTCAGACAG AGTTGTACCT GCAGCAGACA 60
ACTCTGAATT AAAGCATGAA AACACAGCAA A 91
```

SEQ ID NO:5339

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06369

SEQUENCE DESCRIPTION:

GATCTCTCCC CACACAGAGG CCAGCAGACC TCTTCCTGAG GACTTCTGTT TAAAGGAGGA 60
 CGAGGAGGAG GTTGGTGACA GTCAGGCCTG GGAGGAGCCC ACAAACTGGA GCACAGAGAC 120
 ATGGAACCTA GCTACTTCCT GGNAGGTGGG GCGGGNACTA CGGAGAAGGT GCAGCCAGGC 180
 TGTGGCAAAG GGCCCCANTC ACAGCCTTGG CTGGGAAGGN GGGNNGCACA GCTGANGGTC 240
 GACTAAAACA AAGTCTGTTT TCATGNAAA 269

SEQ ID NO:5340

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06370

SEQUENCE DESCRIPTION:

GATCTCTTGT NATGGGGCCA ATAAGTCAAT TGAATTCATG GGCCAAACAG TTCCCATTTCT 60
 CTTCAAA 67

SEQ ID NO:5341

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06371

SEQUENCE DESCRIPTION:

GATCCTNATN ACGNAGCTGA TGCCTGCCTT GGTNCCTACC ACTCTGGTGT AGACAGAGGA 60
 CTTTNTCCAA GTGTCACT AAACATGCCC GGGCTTCGAT GTGCCTGGAG GATTCCCCA 120
 CAGGGACCCA CGCACCTCCC TGTATCTGCG CAGTTGCTCG TGTGGCTGGA AGCGCTGTCTG 180
 ATAAGCTTCN NGGCGCTGGN TTGCCAGTTC TTCAGCTCTA GGACTTGTAG CTTTAAGCAA 240
 ACGGTGTGGC ATGGGNTTGA NGTNTGGCCA CCTGGCAGNG NTGTGCAGGG TCTTGCCTTA 300
 NNAAGCTGG CTN 313

SEQ ID NO:5342

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06372

SEQUENCE DESCRIPTION:

GATCAAAAAA TATATGAAAG TTCCTTGTAG ATACATATCT ATAGATATAT ATGTNTATGT 60
 ATATAAAGAT AGATATATAC ATTGAAA 87

SEQ ID NO:5343

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06373

SEQUENCE DESCRIPTION:

GATCTTTTTA TATTCTTCTA CCACACCTGG AACAGACCA ATAGACATNT TGGGGTTTGG 60
 TAATGGGAAT NNTATAAAG CATTACTCTT TTTNAATAAA TTGTTTTTNA ATTTAAAAAA 120
 AGAAA 125

SEQ ID NO:5344

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06374

SEQUENCE DESCRIPTION:

GATCAGGTGG AAATGTTTAA GCTAAATAAA TCTAGGGGTT NTTTNAACAA A 51

SEQ ID NO:5345

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06376

SEQUENCE DESCRIPTION:

GATCTGAAGA AACACGCAG TGTNCACGCA AGCCACTCAG ACAAGCCCAG GGGTTCCTTG 60
 GCCTTCTCAG TCAGCTAACT TTCCTGAGTT CTCCTTTGAC TTCCTAGGG AACAGTTGAA 120
 CAAGAGATTT TTCAATCAAG NCTTTGGAAC TACGAAGATG GAAGAGATTT GAAGAGGGAT 180
 ATNGAATGAG TAAATTAAGC AACTTTTAN TATCCTATTT CTNTAAATNT CCAGATTTTA 240
 AAACATTCCT GTATTATANT ATCTAAAAAC AAA 273

SEQ ID NO:5346

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06377

SEQUENCE DESCRIPTION:

GATCTAGATA TTTTCTCTT TTTCTGAAGN TACTTTCTTA AAAAATAAAT AAAATGTTTA 60
 TAGCATTCCT NGTAAA 76

SEQ ID NO:5347

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06378

SEQUENCE DESCRIPTION:

GATCAATTCT CTTTGCGAG GNGACCACCA ANGGACTGCA GAGCTGNCCG GGCATTCGTG 60
 CGTGTTCATG ACCGAGAACT TTNCACACAG AGAGGACTTC TGCCTGACG AAGGAGCGCA 120
 GAGCTGGCCG NGCATTCGTG CGTGTTCATG ACCGNGAACT TTTCACAGCT AGGACTNCTG 180
 TCCTGACGTC TTTATNGGTA TAATAGTTGC GTTAAAGNCT GCAGACTTCA AGTTTATATT 240

TCTCTTTATT GTAACACTCT GTGCANNNTT TGATTNCTAG TTTATTNCA TTGTN 295

SEQ ID NO:5348

LENGTH:416

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06379

SEQUENCE DESCRIPTION:

GATCGACCTG AGCACAGTGG ACCTGAAGAA GCTCCGAGTT AAAGAGCTGA AGAAGATTCT 60
GGATGACTNN NNGGAGACAT GCAAAGGCTG TGCAGAAAAG TCTGACTACA TCCGGAAGAT 120
AAATNAACTG ATNCCCTAAAT ATGNCCCCAA GGCAGCCAGT GCACGGACCG ATTTGTAGTC 180
TGCTCAATCT CTGTTGCACC TGAGGGGGTA AAAACAGTTC AACTGCTTAC TCCCAAANCA 240
GCCTNNTTGT AATTTATTTT TTAAGNNGGC TCCTGACAAT ACTGTATCAG ATGTGAAGCC 300
TGGAGCTTTC CTGGATGATG CTGGNCCTGC AGTACCCCCA TGAGGGGATT NCCNTTCCTT 360
CTGTTTGCTG GTGTACTNCT GGGGGNGNGA AGTGTGTCTG GGGNNTTTT TNNTGN 416

SEQ ID NO:5349

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06380

SEQUENCE DESCRIPTION:

GATCTGAAGA AGTGGTTAAG ACCAAGAGTT TATGTACCTT TTAAACAAA GATTAATAAA 60
TTTTTGAAGA AGTGATGAGA CAAAGAAA 88

SEQ ID NO:5350

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06381

SEQUENCE DESCRIPTION:

GATCAGAACA TGAACTTTTT TTTAAAAGA AGATTTGAGC ATTTTCCTGT AATCACATCA 60
AAATNATGTT TTCTGTGTAA AGCGAGATAC ATATTNCTNA TAATGCAGCA TTGTGAGAAG 120
TCAGTTCGGC CCACTGCACC ANCACTGTCTG TATCCTTGTT AAAATGGTGT GTACCTTACA 180
ANTTATAATT TATGTGCCAG GTTCGTTTTG TNCTTAATTT GCTATTATTG TGCTGTGTNT 240
ANCCCTGTN NNCTNGGTN 259

SEQ ID NO:5351

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06382

SEQUENCE DESCRIPTION:

GATCTTATAA AGTACTTGTG TGGAGCTTTG ATTCCACAGA ATAAAAGATA TTTTGTGTGT 60
AGAAA 65

SEQ ID NO:5352

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06383

SEQUENCE DESCRIPTION:

GATCTCAGCC CAGGACAAGG TGGGAATNAG TCAAGCCTGG ACTCTGGCCC CCCTGCCTGG 60
 CCAGTAAGAA GGGCAAAGTC CAAGGGGAGG GATGAGGNAG GGGCCAGATG GGGTCCTGGA 120
 GGAAGAATTN CCTGGCAAAA GCCATTGGAG CTTGTNTGTG TGTCTTTGGT GATGACATNT 180
 GTTGTGAGGG TAGATGGGAA CCATNTTAAA AGGATGAAAT GTGAAA 226

SEQ ID NO:5353

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06384

SEQUENCE DESCRIPTION:

GATCCTTTTG TAAGGNCCTT CCTGAAGAAG AAAGGTGGCA AATACAGTNT TCAGTTCAAG 60
 TTGCCCGACG TGTATGGTGT ATTCCAGTTT AAAGTGGATT ACAACCGGCT AGGCTACACA 120
 CACCTGTACT CTTCCACTCA GGTATCCGTG CGGCCACTCC AGCACACGCA GTATGAGCGC 180
 TTCATCCCCT CGGNCCTACC CTACTACGGC AGCGGCTTTC TNCATGATGC TGGGGGCTCT 240
 TTCATCTNTC AGCATCGGGC NGGCTTTGCA CATGNAGGGN GAATGNTGGA NGTCCGANTT 300
 TTNGN 305

SEQ ID NO:5354

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06385

SEQUENCE DESCRIPTION:

GATCTACATT CTTCAAAAAA AAAAATTGGC TTAAGTGTTC CATCTTNAAG TAGCATTITG 60
 CTGCCATTG TATTGGGCTG AAGAANTCAC TATTGTGTAT ATACTCAAGT CTTTNAATT 120
 TCCCNCTTTT CATAAATNCT CTTGGNCATN ATTGGGCTTG CAGAGTTCCC TTATNCTGGG 180
 GATTACAATG CTTTATCGT TTCAGGCTTC ATTNNGCTT CAAANCAAGC TGGGCACACT 240
 GTTAAANCAT GATTTTGCAG ANCCTTTGGT TTTGGACAGT TTCATTTTTT NGGATTTGGG 300
 ATAGATTNCA TAGGAGTATG GAGTATGCTG TAAATAAAAA TNCANGCTAG TGCTTN 356

SEQ ID NO:5355

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06386

SEQUENCE DESCRIPTION:

GATCTTTAAC AGCTCCTTTA CTTGCNCTTT GTAAAAAAA ATAAAATTAG NTTGAATTAT 60

TCTACCTTTG TAAA

74

SEQ ID NO:5356

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06387

SEQUENCE DESCRIPTION:

GATCCTGCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGCGCC TGGAGCAGCA 60
GAATAAGNTC CTTAACTTAA AATAAATTAA TTTTTCAAA AAACATAAAT CTGGAAGTGT 120
TGTTTCTATA TTNATAACA AATACAGTAT ATNTNATNTA TAAGCCATGG TCTACTGATA 180
CTGTATGAGG ACTTNCCTGA N 201

SEQ ID NO:5357

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06388

SEQUENCE DESCRIPTION:

GATCAGAACG TTAACATATG AACCTGCAGA AATCTGGTAA GACTTAAATT CAGTGTGAGG 60
AATAACTCTA GTTCTCTCCT ATGAGCATT TCTAAAAGCC ATCTGATTG GCATTCTTAC 120
TGGAGCTGCA GACAGAAATC TACAAAGNCN NAAGTAAACA AAATTAAGTT ATTATTCCAC 180
TGTTAGGAAT GGAAATAAAC TTGTGAAGTC TGTTTATTTT GAAGTATTGG TGAAGTAGGC 240
TTGCTAATNG GGAGCTGCAG CAGTTTGTGT TTAATCCAGT TCATCAGCTT AGGTCATTG 300
AAAGNTATAA GAGCTTAAGG CAAGAAAGGA ATACCATGGG ATTCTATTN AGGGCCACCA 360
GNCCATTCTT GGNAAGCAGC TCCNGTTTGG TTTTCCAGCT GTCAAACTN 409

SEQ ID NO:5358

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06389

SEQUENCE DESCRIPTION:

GATCTGCCCC TNTCGGCCTC CCAAAGTGCT GGGATTACCG GCATGAGTCA CTGCGCCTGG 60
CCGACAAAGG CTTTGATATC AGAATGAACT GTCAAGGGAG GTGCTGGAGA GGGATTAACC 120
TGTGCAGAGN CCAANNGGTA TGGAANNAAA ANTGGGATTG GGACTAGGTG NTCTN 175

SEQ ID NO:5359

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06390

SEQUENCE DESCRIPTION:

GATCAGGCTC AGGCGGCCCC ACTCACCCAC AGCATCCGCC GCCACCCCTT CGGGTGTGAG 60
CGCTCAATAA AAACAACACA CTATAAGTG TTTTAAATC CAAA 104

SEQ ID NO:5360

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06392

SEQUENCE DESCRIPTION:

GATCTTTCCC AAGAGAAGGG GAAGCACTCG TGTGCAACAG ACAAGTGA CTATCTGTGT 60
 AGACTATTTG CTTATTTAAT AAAGACGATT TGTCAGTTAT TTAAAA 106

SEQ ID NO:5361

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06393

SEQUENCE DESCRIPTION:

GATCTACGCT GCCTTCAAGG AAGTGCTGGG TTCGGGCATG CACCACCACC TCCAGAACAA 60
 TGAGCTACTC CGTGACATCT TTGGCCTGGG CCCTGTGCTG TTGCTGGATG CCACTGCCCT 120
 GAAGGCCTGC AAGGTTCCAC GCTTTGAGAA GCACCTGTAC AATGCTGCTG CCTTCAAAGC 180
 CCGGACCAAG GCTCGAAGCC GTGTGCGGGA CAAGCGGGCA GACATCCTGT GAAGCAGGAC 240
 CTGCTGAAGA GGAGACTTTC TATGCCCTTG GTCCGTATTT TTAACAGAAG ACAGTGCAAC 300
 AACTGGTCTT CACCAGTATT TGTCACTTA TTTTTTTTAA TGTCAAAACC AAAACAGAC 360
 ATGGGGTTGG GTAGCTGGGG GN 382

SEQ ID NO:5362

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06394

SEQUENCE DESCRIPTION:

GATCCNATCA TTCCTTAAAC ATANTACCCT TNGTCTTGGA GTAGAATACT AAGTTAGAGT 60
 TAGTGGATTT CTAGTTTAGG AGAGGAGCTC AAAACTATAA TCTNTAACAA ATTGAAAAAT 120
 GAAATAGGGT GTTTTCCCTT TTTGTGCACA CCTACATNAC CTTAAGAAAT NNCCTTCCAT 180
 AGACAGCTGC CTCAAAGGGA AATCCTCTTT AAACCGTAGT TGGCGCAGAG GTCAGTCCTA 240
 GTCGGAGCTT AGGAGGTGCG GNGACGCTCA CATCGTCTGG ACTTGAGTCG NCACTGGATT 300
 GTGGCANCAN NTTTNGCTCA TGNGTCAAAA ATTNNGCAA TTTCTTTTGG ATTN 354

SEQ ID NO:5363

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06395

SEQUENCE DESCRIPTION:

GATCCAGGGC CTCCCCGCCT TCCTTCTTCC TTTTATATA CAATTGTGTA TTGTCAAATA 60
 AAAGTAGGAA ATATTCAAA 79

SEQ ID NO:5364

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06396

SEQUENCE DESCRIPTION:

GATCTTTGTG GCCAAGGAGC TGCTATAGCC TGGGGTGGGG TCATGCCCTC CTCTCCCATT 60
GTCCCTCTNC CCCATCCTCC AGCAGGGAAA ATGCAGCAGG GATGCCCTGG AGGTGGCTGA 120
GCCCTGTCT AGAGAGGGAG GCAAGCCCTG TTGACACAGG TCTTTCCTAA GGCTGCAAGG 180
TTTAGGCTGG TGGCCAGGA CCATCATCCT ACTGTAATAA AGATGATTGT NAAATAAA 238

SEQ ID NO:5365

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06397

SEQUENCE DESCRIPTION:

GATCCTTGTC CGTGGCAACC TTAAACGTGT GCTGCAGTGC TGATGTATTT ATAGGCTTAG 60
CATGTCTGCT TTATTAGTTA TCCTGGAAAG AATGCTATTC AGTTTTTTTT TTAATGTCTA 120
CATCANGGAA TGAATGCTAA ATNAGCCCAT TTAGCAGCCT GAAATCAAAT NCTGCATTN 180
TTTTTTNAAA CTCTTGGTAG CAAAAGAAAA AGCTGATTAA ANTATGATTG TGTTACAATG 240
ACTAAAGGGT TANCTNCTCA TTAATTCTAA ATNCTTCAAA ATGNACAAGC ATCATAATAA 300
AGGCTTTTGA TGNGAANTAA A 321

SEQ ID NO:5366

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06398

SEQUENCE DESCRIPTION:

GATCTACAAG TCAGTGCCCT GTATGCTCTC CAGGTGCACT GCTATAACAG CAACTTCCCA 60
AAAGGCATGT TACTTCGCTT TTTTGTGCAC TTCTATGACA TGGAAATTAT TGAAGAAGAA 120
GCTTTCTTGG CTTGGAAAGA AGATATAACC CAAGAGTTTC CGGGAAAAGG CAAGGCTTTG 180
TTCCAGGTGA ATCAGTGGGC TAACCTNGTT AGAAACTGCN GAAGAAGAAG AATCAGAGGA 240
NGAAGCTGAC TAAAGAACCA GCCAAAGCCT TAAATTGTGC AAAACATACT GTTTGCTATG 300
ATGTAACTGC ATTTGACCTA ACCACTNGCG NAAANTNATT CCGNTGTAAT GTNTTCACAA 360
TATTTNAAAG CAGANGCACG TCAGTTTNGG NTTCTTCT GCANAAAGN 409

SEQ ID NO:5367

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06399

SEQUENCE DESCRIPTION:

GATCCTCAGT ATAGCCGGTG AACCCCTGATA CCAGGAGCCT GGGCCTCCCT GAACCCCTGG 60
 CTTCCAGCCA TCTNATCGCC AGCNTCCTCC TGGACCTNTT GGGCCCCAGC CCCTTCCCNA 120
 CACAGCCCNA GAAGNGTCCC AGAGCTGACC NCACTCCAGG ACCTAGGNCC AAGCCTN 178

SEQ ID NO:5368

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06400

SEQUENCE DESCRIPTION:

GATCATTGTA ATATATTAN TTGTATATNA AGCATGACTA CTTTAAGTNT TAAATAAACT 60
 GCAATAATCC TTAAA 75

SEQ ID NO:5369

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06401

SEQUENCE DESCRIPTION:

GATCAGTGNC TGGCACCAGA CACTTCTGGG GATGGTACAG GGTGTGACAA CATGACCTGC 60
 ATCATCATTT GCTTCAAGCC CCGAAACACA GCAGAGCTCC AGCCAGAGAG TGGCAAGCGA 120
 AACTAGAGG AGGTGCTCTC TACTGAGGGG GCTGAAGAAA ATGGCAACAG CGACAAGAAG 180
 AAGAAGGCCA AGCGAGACTA GCAGTCATCC AGACCCCTGC CCACCTAGAC TGTTTCTGA 240
 GCCCTCCGGA CCTGAGACTG AGTTTGGTC TTTTCCTTT AGCCTTAGCA GTGGGTATGA 300
 GGTGTGCAGG GGGAGCTGGG TGGCTTCACT CCGGCCATT CAAAGAGGGG TCTN 354

SEQ ID NO:5370

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06402

SEQUENCE DESCRIPTION:

GATCACTGGA ATGTGGGGAT TCTGAAACAG AAATGAAACT GTCCTTTTGA CAACTCTCTT 60
 ATATAATAAA GTATCACCAG CTTGTGTATG AAA 93

SEQ ID NO:5371

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06403

SEQUENCE DESCRIPTION:

GATCATGCAT TATCTTTATA ATTCAAAAGA ATTTATATAT ATGTAAAGGA GGAGAAAATA 60
 AAAAAAATA TAATCTTAAA 80

SEQ ID NO:5372

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06404

SEQUENCE DESCRIPTION:

GATCATNTTG ATAATGCTCG GAATATTTN AAATGTCCAT TCCGCTGTGT TGATTGAGGA 60
CGTTCCCTTC ACGGAGAAAG ATTTAAGAA TGGCCCCCAG AACATATACA ACCTTTACGA 120
GCAAGTCAGC TACAACTGTT TCATCGCTGC AGGCCTTTAC CTCCTCCTCG GAGGCTTCTN 180
TTTCTGNCAA GTTCGGCTCA NTAAGNGCAA GGANTACATG GTGCGCTAGG GCCCCGGNGN 240
GTTTCCCCGN TCCAGCCNCT TCTCTATTTA ANGACTGCNN GCACCGTGTC AN 292

SEQ ID NO:5373

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06405

SEQUENCE DESCRIPTION:

GATCCTNCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGNGCC TGGGGGACCT 60
CTACGAGGAG NAGATGCGGG ACTGCGCCGG NAGGTGGACC AGCTAACCAA CGACAAAGCC 120
CGCNTCGAGG TGGAGCGCGA CAACCTGGCC GAGGACATCA TCGNCTCCG GGAGAAATTN 180
CAGGNNGGAG ATTN 194

SEQ ID NO:5374

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06407

SEQUENCE DESCRIPTION:

GATCCTGGAT TCACTCACTC ACTCATTCCT TCACTCATCC AGCCACCTAA AACATTTAC 60
TGACCATGTA AA 72

SEQ ID NO:5375

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06408

SEQUENCE DESCRIPTION:

GATCACGCAC GAAGGTACG AACTGACCCA GATTATCGCC GACGTGTCCC AGGACCCAC 60
GTTGCCGCGG ACCGAGGACC ACCCGTGCCA AAAGTGCAGC CACAAGGAGG CTGTGTTCTT 120
CCAGTNACAC AGTGCAGCGG NCGANGACGN CATGCGCCTT TACTACGTGT GNACAGCCCC 180
ACANTGNNGC CACCGCTGGA CCGAGTGNC TNCNTGTN 219

SEQ ID NO:5376

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06409

SEQUENCE DESCRIPTION:

GATCCAACAA GAACATTTCC AAAAGTATCT AGGTGTTCTC AAATAAAAAG CTTTCTTTGC 60
ACAAA 65

SEQ ID NO:5377

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06410

SEQUENCE DESCRIPTION:

GATCTGCTAA TGCTTTTCTAG GAGTCTGCCT GGAACTTTG ACATGGTTCTN TGTCTTTTACT 60
CAAAATCCAA TAAACAAGG TAGTTTGGCT GTGCAAA 97

SEQ ID NO:5378

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06411

SEQUENCE DESCRIPTION:

GATCCCAGAG AGCANCTTCA GTGACAAACA TATCCTTTCA AGACAGAAAG AGACAGGAGA 60
CATGAGTCTT TGCCGGAGGA AAAGCAGCTC AAGAACACAT GTGCANTCAC TGGTGTCCACC 120
CTGGAATAGG CAAGGNATAA CTCTTCTAAC ACAAATAAG TGTCTTATGT TTGGAATAAA 180
GTCANCCTTG TTTCTACTGT TTTAAA 206

SEQ ID NO:5379

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06412

SEQUENCE DESCRIPTION:

GATCACTTAA ATGATTTTNT GGTGATTCGT GCCATTGCTT TTTTATTTAA AAGAAAATTT 60
TGTAATTAAA TGCCTTTTTC TAAA 84

SEQ ID NO:5380

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06413

SEQUENCE DESCRIPTION:

GATCACACCA GAGTACATGT CTCTGCCTCT NTTTTCACTG TGGCTTTGGA CAGGAATATA 60
TGAATAANTC ACTGCCATAC AGGTTTTCCA ATACACAAGT GCTAGAAAAT ACACACAATT 120
CCCCAAA 127

SEQ ID NO:5381

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06414

SEQUENCE DESCRIPTION:

GATCAAAAAT GCAACTGAGA AAATNATGGC TCTTGTGCT GAGCTGTCCA TGAAACAAGC 60
CCTAACCATT GAACTCCAAA AGGAAGTCAG GGAGAAAGAA GACTTCATCT TCACTTGCAA 120
TTCCAGGATA GAAAAAGGTC TGCCACTCAA TAAGGAAATT GAGAAAGANT GGTGAAAGT 180
CCTTCGAGAT GAAGAAATGC ACGCCTTGGC CATCGCTGAA AAGTCTCAN 229

SEQ ID NO:5382

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06415

SEQUENCE DESCRIPTION:

GATCCCTAAC TGTTCCCTTA TCTGTTTTCT ACCTCCTCCT TTGTTTAATA AAGGCTGAAG 60
CTTTTGTAA A 71

SEQ ID NO:5383

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06416

SEQUENCE DESCRIPTION:

GATCACTTAC AAATTTTTTG AATAACACAA AATCTCATTC TACCTGCAGT TTAATTGGAA 60
AGATGTGTGT GTGAGAGTAT GTATGTGTGT GTGTGTGTGT GCGTGCACGC 120
ACGCTTGAG CAGTCAGCAT TGCACCTNCT NTGGAGAAGG GTATTCCTTT ATNAAAATCT 180
TCCTCATNNN NGNTTGTCTT TCAGTTGGTT TTCAATTNC TCACTGGCCA GAGAN 235

SEQ ID NO:5384

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06417

SEQUENCE DESCRIPTION:

GATCTTCCCT CTCTGAACA GCAACTCCCC CCAACTCATA CACTGCCGTT TTCAGGGTAA 60
GCGGCCTTCA CCCCTAAGTG AAAATGTTAG TGAACATAAG GAAGGAGCCA TTCTTGGAAC 120
TGGACGACTT CTGAAAAGTG GAGGACGAGC ATGGGAGCAA GGCCAGGACC ATGACAAGGA 180
AAATCAGCAC TTTCCCTTGG TGGAGAGCTA GGCCCTGCAT GGCCCCAGCA ATGCAN 236

SEQ ID NO:5385

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06418

SEQUENCE DESCRIPTION:

GATCCAGTAC TTGGCAGCCA TAGTTTAGAC AATATTGTTC AGTGCTGTGT TGCTNNCATG 60
TTAACAACAA AACCTTTTAG AGGNCCCACA AATCATNGGT ATNGGACACA GGTCCGAGGN 120
ATTCCAGAGC ATCAN 135

SEQ ID NO:5386

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06419

SEQUENCE DESCRIPTION:

GATCAGCTCG CACAGAGGTT GTCTGCAAGC AGTGTGAAGC TCATCTAGGT CACGTGTTTC 60
CTGATGGACC TGGGCCCAAT GGTCAAGGT TTGTCATGAA CAGTGTGGCT TTGAAGTTCA 120
ANTCAAGGGA AACTGACCA TCTTCAAGAG TCCCGTTCCC TTGCCACCCC TTCACGTGCA 180
CCCTCAATT CCACAATTCA CTTGAATGAC TTGNTTATT NGCAATAAAA CTGGGCTGAA 240
TTTGCTGCTG TCTCCAAANA N 261

SEQ ID NO:5387

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06420

SEQUENCE DESCRIPTION:

GATCATAGAC ATGATTATAT GTGAGTATCA TTAATCATTG GTTTATAGCA NTTNCTCTTT 60
ATTCCAATAT TATAATAATC CNCACCTCTAC AATCATAACC TAGGAAAAAC CAGGCCATAC 120
AGAGATAGGA GCCGAGGGGN CATAGTGCGA AGTGGCCAGA AGACAAGAGT GTGAGCCTTC 180
TCTTATGCCT GGACAGGGCC ACCAGAGGGC TTGGTCTAGC AGTAACACCA GTGTCTGGGA 240
AGATGCCTGT TGCAAGTGG ACCATGGTCT AGCGGGGGGC ATCAGTGTCA NGGTANNGAN 300

SEQ ID NO:5388

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06421

SEQUENCE DESCRIPTION:

GATCAACAGT GGCAATGGAG CTGTGGAGGA CAGAAAGCCA AGTGGACTCA ACGGAGAGGC 60
CAGCAAGTCT CAGGAAATGG TGCATTGGT GAACAAGGAG TCGTCAGAAA CTCCAGACCA 120
GTTTATGNCA GCTGATGAGA CAAGGAACCT GCAGAATGTG GACATGAAGA TTGGGGTGTA 180
ACACCTACAC CATTATCTTG GAAAGAAACA ACCGTTGGAA ACATAACCAT TACAGGGAGC 240
TGGGACACTT AACAGATGCA ATGTGCTACT GATTGTTTCA TTGCGGAATC TTTTGTGAN 299

SEQ ID NO:5389

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06422

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCCTC CCAAGGTGCT GGGATTGCAG GTGTGAGCCA CTGTGCTCGG 60
CCTTATTTAT ATTTTATATA TTGTTGATAT GGTGAATTT ATGTATGCCA TTAAATTATT 120
TGTTTCTATT TAAA 134

SEQ ID NO:5390

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06423

SEQUENCE DESCRIPTION:

GATCAACGTC CTCATGAGC ATGGNATAGT CCACCGTGAC ATTAAAGGTG CCAATATCTT 60
CCTTACCTCA TCTGGTTTAA TCAAACTGGG AGATTTTGA TGTTCAGTAA AGCTCAAAAA 120
CAATGCCAG ACCATGCCTG GTGAAGTGAA CAGCACCTG GGGACAGCAG CATACTGGC 180
ACCTGAAGTC ATCACTCGTG CCAANGGAGA GGGCCATGGG CGTGCGGCCG ACATCTGGAG 240
TCTNTGGGTG TGTTGTCTA GAGATNGTGA CTTGGCANGA GGCCTGGCA TGAGTATGAG 300
NAN 303

SEQ ID NO:5391

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06424

SEQUENCE DESCRIPTION:

GATCCAGAAG AAGTGACCTG AAGTTTCTGT GCAAACTNC AACTAGGCA ATGCCATTTC 60
AATGCATTAC TAAATNACAT TTGTAGTTCC TAGCTCCTCT TAGGAAAACA GTTCTTGTGG 120
CCTTCTATTA AATAGTTTGC ACTTAAA 147

SEQ ID NO:5392

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06425

SEQUENCE DESCRIPTION:

GATCAATTTC ACAGACAGAT GGNGTGTATG CCCCTCCCAN GTTTGACTTC ACACACACTC 60
ATAACTTTCC AAATGAAGCC CCACAGTATA GCGCATATTT TNGATATTTT TGTGAATNCC 120
ANNAGGAN 128

SEQ ID NO:5393

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06426

SEQUENCE DESCRIPTION:

GATCCCTAGG AGCTGNCCTN CTTCCAGCCA NTGCCAGGAA CCAGCACTCC ATGAAGATAA 60
ACTCTGGGCC CGACCACCAG CAGGNCCTGA CGACCTGAGG TGACCCTNGG CCTTTCCCCC 120
NN 122

SEQ ID NO:5394

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06427

SEQUENCE DESCRIPTION:

GATCACAAAT TTTGATATGT GCTATACAGG AAATAAAGTG TTATGATTGA GAATAAA 57

SEQ ID NO:5395

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06428

SEQUENCE DESCRIPTION:

GATCTGAAAT CTTCACTAGG TTGATGTGGT TTCCTCTGCA GTGATTTTCC TAGGAAGTTC 60
AAATTGACA GCGAGTTCAG CTCAGCTGTG GCCCTCTGCC CTTCCAGCTG TGCCTAGCAA 120
GCAAAACCCA GGNAAGAAGC AGTNGCCTCC TGGCCTTACA TACAGAATGC CTGGACAAGA 180
GAGAACTTGC TCGGNCCTGC TTTGTATTTT AAAACACAGC TTGNGAGTTC AGAGTTGGTG 240
GTTTGCTCAC TTAGCGGTTG TTANGNTGGC TTGAAAAGTT TTCATTATGA TAACTGGGT 300
ACCTGGGCT TNGAATGTTN NCAACTTNGG NNNATCTNAT GGTACCTNT GATTANNAN 359

SEQ ID NO:5396

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06429

SEQUENCE DESCRIPTION:

GATCTACCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGAGTCA CCACGCCCGG 60
CCCTGNTTAT CAATCTTCAA TATTTTGTAT TTTGAGCACT TTGTTGGATT TGTTATTTAG 120
CACATGTATA CATTGTTTTA TTATAATATT GTGTGTAATT TATTTCTGAT TAATTTTATA 180
TCCTTCCTC ACATTTCAA TACTTCTAAT TAAAAGCAGA CTGTTCAAAA AANNNNNGNN 240
NGNNNN 246

SEQ ID NO:5397

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06430

SEQUENCE DESCRIPTION:

GATCTGGCTG AGGGCTCAGG ACACAGGCCC AGCCACCCCC AGGGGCCTCC ACAGNCCGCT 60
GCATGACAGC NATACAGTAC TTAAGTGTCT GTNTAGACAA CCAAAGANTA AATGATTCAT 120
GGTTTTTTTT AAA 133

SEQ ID NO:5398

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06431

SEQUENCE DESCRIPTION:

GATCCTGAAC CAAATTTATA GCAATATAAT TAGTGTTTNT CTAAGGCATT ACTCATCAA 60
AAAATTGCTG CAGTCTTTAC AGTTGAATAA ATAAAAACAA CTGCATAAAT ATGCCCAA 119

SEQ ID NO:5399

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06432

SEQUENCE DESCRIPTION:

GATCACCACC TGTAGAAACT GTTCTTCCTC TGTGAAACTA ACGGCCTGCT GGTAATAAAA 60
GTAGCTACCA TTTCTGAAA 80

SEQ ID NO:5400

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06433

SEQUENCE DESCRIPTION:

GATCACTCAT TGCTAATTTT GTCCTGTACA GCTTATGTAA TATTTNNATG GTGGAGACGG 60
ACTCTGTGTG CTCAGGGCCT TGTCTCTAGG AAGATTTTGT CAATTCCAAA TACAGTTTGT 120
AAGATTCAAA 130

SEQ ID NO:5401

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06434

SEQUENCE DESCRIPTION:

GATCAACTGA TAAGTTGCCT TATGTCACCA TGGGTTCTGG CTCCTTGGCA GCAATGGCTG 60
TATTTAAAGA TAAGTTTAGG CCAGACATGG AGGAGGAGGA AGCCAAGAAT CTGGTGAGCG 120
AANCATCGCA GCTGGCATCT TCAACGACCT GGGCTCCGGA AGCAACATTG ACCTCTGCGT 180
CATCAGCAAG AACAGCTGG ATTTTCTCCG NCCATACACA GTGCCCAACA AGAAGGGGAC 240
CAGGCTTGGC CGGTACAGGT TGTGAGAAAG GGGACTACTG CAGTCCTCAC TGTGAAANTN 300
ACTCCTCTNG AGATTGAGG TTNTTGAAG AAACANGTCC AAACAATGGA CCCTTCCTG 360
AATTGGCATC ANTGGTNNN 379

SEQ ID NO:5402

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06435

SEQUENCE DESCRIPTION:

GATCTGTAGT AAACAATGGT GATTTTATTT ATTTTNACTC TCTGGAAAAG GAGATAATAC 60
AATTCCAGAA AGTGAAGTCA TATTTCTAAG GTTAAGATTG CCTTTTATTG CACCTAGAAT 120
AGTGCTATGC ACAGAGCGGG TGCTTGAGTT GTTGTCGTTT TNTGTTTGT TTTTAAATGT 180
AAACTGGTAA ATNTTGTGCT TATCTTCAAG GCTAGCTTAN GTATAAAATN GTTTTTTAAA 240
CACTTGNAAA ATTAAAGGAT TTGTTTAAAN NANGGANNAG GGGNGGTGGT TNGGTNN 297

SEQ ID NO:5403

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06436

SEQUENCE DESCRIPTION:

GATCAAATAG TTGCATAGCA GTATATGTNA ATTTGTGTGT TTTTAGCTGT GACACAGCTG 60
TGTGATTAAA AGGTATACTT TAGTAGACAT TTATAACTCA AGGATACCTT CTNATTTAAT 120
CTNTTCTTAT TTTTGTACTT TATCATGAAT GCTTTTAGTG TGTGCATAAT AGCTACAGTG 180
CATAGTTGTA GACATGGTAC ATTCTGGGGA AACAACATTT NTNTGTNGCC TTTACTGTTT 240
GATATACCAN ATNANAANAA AATTGGGTCT NATTNCTNAT GCTGGGGCAC CNTN 294

SEQ ID NO:5404

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06437

SEQUENCE DESCRIPTION:

GATCCTCACC NCTTGGAATT AAAATNCTTG TCACTCAGG CAAGCCTACA GTTGCAACC 60
AAGTCTAGGG TTTCTGTAA TCAANGNCGT TTTTCANTT AAA 103

SEQ ID NO:5405

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06438

SEQUENCE DESCRIPTION:

GATCTGCTGG ACATCATGCC CCATGTCATA GAGAATAAAG CTGATGATTG TACCAGTAAA 60

SEQ ID NO:5406

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06439

SEQUENCE DESCRIPTION:

GATCATACCN ATAAAAATAA TNCCAAACAC CAAATATGAA TTTTATGAAT GTACACTTG 60
TGCTTNACAT TAAAAGAAAN AAACACACAA A 91

SEQ ID NO:5407

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06440

SEQUENCE DESCRIPTION:

GATCGTCGCC TGCTGGCTAA GACCAGGGAG CTAAAACTT NAGGAAGGGA ACCTGCCTGG 60
TTGGNTGCTA CTTCTGATTG ATTGTCCTTN TCCCTNTCAT AAGTNCCN 108

SEQ ID NO:5408

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06441

SEQUENCE DESCRIPTION:

GATCTTATGT TTAAGAGAT TCTGTTATTA GCACCATGAA CTCGTACTAT GAAATNTTTA 60
AGCCTTTTAT TTTTCTAACT ATATTACTGT AGGACTGGAT ATTAGGTGTC ATATAGGAAA 120
CACAAAAGTT ATTGCTGTTT GCTAAAGCAA AGTAGCAGAA AATTTTGTAT ATGCAAAACT 180
GTTGAAGGNC CATAGAGAAA TGTGTACTAC TGACGGGGCT TTTACTAGGC TTCCTGCGTG 240
TGTANAAGTC GAGGTTTTGG CTTGGCATTG AGGGTGACAT GGTGGTGCTA AATTGTTTTG 300
CNTTTAAAAG GCNTTCTATT N 321

SEQ ID NO:5409

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06442

SEQUENCE DESCRIPTION:

GATCCGCAGC AGAAGCTCTT CCCTTCTGTA TCCTATGTAT GCAGTGTGCT TTNCTTGCC 60
AGCTTGGGGC ATTCTTGCTT AGACAGTCAG CATTGTCTC CNCCTTTAAC TGAGTCATCA 120
TCTTAGTCCA ACTAATGCAG TCGATACAAT GCGTAGATAG AAGAAGCCCC ACGGGAGCCA 180
GGATGGGACT GGTCCGTGGT TGTGCTTTTC TCCAAGTCAG CACCCAAAGG TCANTGCACA 240
GAGACNCCGN GTGGGTGAGC GCTNGCTTCT CAAACGGNCG AAGTTGCCTC TTTAGGNAT 300
CTCTTTTGA ATTTGGGAGC ACGATGNCTC TNGAGTTTGA GCTATTAAAG NACTNCTTGG 360
CACATTAANA AAANANAAAT GNGGTNNGNN 390

SEQ ID NO:5410

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06443

SEQUENCE DESCRIPTION:

GATCCCAGGG AAATATCAGC CTTGGGCAAC TGCAGTGACC AGGGGCACCG GCTGCCCACA 60
GGGAACACAT TCCTTTGCTG GGGTTCAGCG CCTCTNCTGG GGCTGGAAGT GCCAAAGCCT 120
GGGGCAAAGC TGTTTTTCAG CCACACTGAA CCAATTACA CACAGCGGGA GAACGCAGTA 180
AACAGCTTTC CCACAAA 197

SEQ ID NO:5411

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06444

SEQUENCE DESCRIPTION:

GATCTTCAAG TGAACATCTC TTGCCCTGAT TGAAGGCTTT GCCACATGCT GGAAGGCCCC 60
CTCCCAGGAA GATGGGGGTC ATTAAAGGAA ACTNAACATT GAAA 104

SEQ ID NO:5412

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06445

SEQUENCE DESCRIPTION:

GATCACCTGA ACAATCTAGA TGTGGACAAA ACCATTGGGA CCTAGTTTAT TATTGGTTA 60
TTGATAAAGC AAAGCTAACT GTGTGTTTAG AAGGCACTGT AACTGGTAGC TAGTCTTGA 120
TTCAATAGAA AAATGCAGCA AACTTTTAAT AACAGTCTCT CTACATGACT TAAGGAACTT 180
ATCTATGGAT ATTAGTAACA TTTTCTACC NNGNNGTCCG TAATAAACCA TACTTGCTCG 240
TAAA 244

SEQ ID NO:5413

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06446

SEQUENCE DESCRIPTION:

GATCTNAGAA AANGCACCAC GTNAGCTTAC TAANTNATAA TATCTGTTTC TACTACGGAT 60
TTAGGCAACA GGACCTGTAC ATTGTCACAT TGCATTATTT TTCTTCAAGC GTTAATAAAA 120
GTTTTAAATA AATGGCAAA 139

SEQ ID NO:5414

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06447

SEQUENCE DESCRIPTION:

GATCGGGGTC CATGGGCCCA CCACCCCTG CAAGGAGGTC TCCATGAAGC ATGTAGGCAA 60
CCAGCAATAC AACGTCACAT ACGTCGTCAA GGAGAGGGGC GATTATNTNC TGGCTGTGAA 120
GTGGGGGGAG GAACACATAC CTGGCAGCCC TTTTCATGTC ACAGTGCCTT AAAACAGTTT 180
TCTCAAATCC TGGAAA 196

SEQ ID NO:5415

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06448

SEQUENCE DESCRIPTION:

GATCCATTAA TCTGCTAATT GGTTCCTAT GAAATCACAT TGTCTGTTAT TAAAGCTTTT 60
TACCATAAA 69

SEQ ID NO:5416

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06449

SEQUENCE DESCRIPTION:

GATCTAGTAA AGTGTTTTAG AACCCCTTTT TATCCCATGC ACCATTCAGT AAACATAAAA 60
ATCACAAATC TGCTAATGTC ATTTGGAAC TCAAAATAAA TATCTTGTCT AAAACAAA 119

SEQ ID NO:5417

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06450

SEQUENCE DESCRIPTION:

GATCATTGCA TGAATAGAAT CAAGGAGCTC ACTCAGAGTG AACTTNAATT ATNACTTTNN 60
AGGCTCATTT GTACTCTCTT CCCCTCTCAT CGTCATGGTC AGGCTCTGAT ACCTGCTTTN 120
AAAATGGAGC TAGAATGCTT GCTGGATTGA AAGGGAGTGC CTATCTATAT TTAGCAAGAG 180
ACACTATTAC CAAAGATTGT NGGTTAGGCC AGATTGACAC CTATTTNTNG NCNNTATGCG 240
TATATTTNCC TGTGCTATAT ATGAAAANTA ATTGCATGAT TTCTCATTCC TGNGTCATT 300
CTCAGNGN 308

SEQ ID NO:5418

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06451

SEQUENCE DESCRIPTION:

GATCTGAAGG GAGAAGGTGA TATTCATGAA AATGTGGACA CAGACTTGCC AGGCAGCCTG 60
GGGCAGAGTG AAGAGAAGCC CGTGCCTGCT GCGNCTGTGC CCAGCCCGGT GGCCCCGGCC 120
CCAGTGCCAT CCAGAAGAAA TCCCCCTGGC GGCAAGTCCA GCCTCGTNTT GGGTTAGCTC 180

TGACTGTCCT GAACGCTGTC GTTCTGTCTG TTTCCTCCAT GCTTGTGAAC TGCACAACTT 240
 GAGCCTGACT GTACATNTTT TGGATTGTGTT TCATTANAAA GAAGCACTTT AAA 293

SEQ ID NO:5419

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06452

SEQUENCE DESCRIPTION:

GATCCTGGNA CATTTTCATAA GCTTGGGTAA AAAAAATTTT TGTTATNNTC CATGCACAAT 60
 AAGGGAAATG TTTTAATTGG CTTTGNGCCT CCTGCTTTAC AACAGTTCTG GCCTCAAGTT 120
 ACCAGGTAGC CTGAACCTTG NTTTTATTTT ACCATTAANT TGCTTTAATA CCATNGTAAA 180

SEQ ID NO:5420

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06453

SEQUENCE DESCRIPTION:

GATCACTGA GCCCANGTTG AGGTTGAGGC TGCAGTGAAC TATNATTGTA CCACTGCACT 60
 TCAGCCTGGG CAACAAAGGA AGACCCAGT TCTGGGAAA 99

SEQ ID NO:5421

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06454

SEQUENCE DESCRIPTION:

GATCCCTGCA TTNCCTGAAG ATNTTTAAAC GTGAGAGTNT GGTAGGCAAA GCAGTCTGAG 60
 AAAGAAATAG GAAATGCAGA AATAGGTTTT TTTTGGTTGC ATATAATCTT TGCNCTTTTT 120
 AAGCTCTGTG AGCTCTGAAA TATATTTTNG GNTTACTTCA GTGTGTTTGA CAAGACAGCT 180
 TGATATTNCT NTCAAACAAA TGACTNNGN 209

SEQ ID NO:5422

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06455

SEQUENCE DESCRIPTION:

GATCCAGTGG ACAAAAGAGG GGAAACTATG GGAGTCCCA ATTAACAATG AAGCAGGTTT 60
 TGATGATGAT GGTTCAGANT TTCATGAACA TATATTTNTG GAGAAACACC TGGAGAGCTT 120
 TCCAAAACAA GGACCAATTC GCCACTTCAT GGAGCTGGTG ACTGTGGCC TTTCCAAAAN 180
 CCCATATCTT AGTGTTAAAC AGNNGGTTGA NCACATNGAG TGGTTTAGAN ATTNTTTTNA 240
 TGNNAN 246

SEQ ID NO:5423

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06456

SEQUENCE DESCRIPTION:

GATCTGCTCA GAAAGGAAGA GGCAGGCGCC AGGGNGAACC CCCTTCCGTG NTTTGTAACC 60
CTCCCTNTAA GGTGAAGCCC TTTTNCCTGC TAAAACCGGN AATTN 105

SEQ ID NO:5424

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06457

SEQUENCE DESCRIPTION:

GATCCTGGGG GTCGTGGCTA CCCCCTCCTC GTGGCCGNNC TCCTTGCTGC TCCTGTCAAT 60
AGTGAGCTTG TGCCGTCCCN CTAGGATGGG GGCATGGCCN TGGGCTGCCA GATGCCACACA 120
GCACCTGGC ATGACCTNCC ACCTNGGGTT CCANACCGN 159

SEQ ID NO:5425

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06458

SEQUENCE DESCRIPTION:

GATCACCTAT CCCCTGTTTC AACAATGAAT AAGGAACAGC AAATNTTTGA GACGTGCCCT 60
GAAACTGAAC AGAGATGCAC TCTCCAGTGA CTCCCAGCA AACACAAGGT GCAGCAGGGT 120
CCCAAAGGTA GCTGNTGGC TGANCTGCTG GNTATGGGAG ATACATGACG CGAAGACGGN 180
TTNACATCC ACAGGGCGGT NTTNANGAAA N 211

SEQ ID NO:5426

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06459

SEQUENCE DESCRIPTION:

GATCCACCAC AGGGTTAGGG GACAGGAAGC CTGTTCTATT CTCAATAAAT CTTACAAAAT 60
TCCAAA 66

SEQ ID NO:5427

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06460

SEQUENCE DESCRIPTION:

GATCATTATT TCCATTCTTA ATGTGAAAAA AAGTAATTAT TTATACTTAT TATAAAAAGT 60
 ATTTGAAATT TGCACATTTA ATTGTCCCTA ATAGAAAGCC ACCTATTCTT TGTGGATT 120
 CTTCAAGTTT TTCTAAATAA ATGTAACTTT TCACAAGAGT CAACATTAAA AAATAAATTA 180
 TTTAAGAAA 189

SEQ ID NO:5428

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06461

SEQUENCE DESCRIPTION:

GATCTAGACA TGCCTTAGGT AACTGCAGAA ATAGCAAATT AAATNATTAA TGAGCTTATT 60
 AGTCATAGTA AACATACAGA TTCCTANTTC TATGACAGTG TACATNTATG ANAATAAATG 120
 ATGAAAAAAG AACTATAGTA TTTTAAAAA TATGCTTTTA TTTNTATTNC ACATAGTGNA 180
 AAGTTCTACA NAN 193

SEQ ID NO:5429

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06462

SEQUENCE DESCRIPTION:

GATCACATTT CTGGGAAGAT GAGANCTNNT TTCCAGACCA GCATCCAGTG GCCATCAGGT 60
 CTTGTGGCCC AAAGGCTATG CTTGCCTCCG GCTGAGTGCC TGGNATAGGC CTTNCTATG 120
 TCTCCCCAAG GCTGGGGTGC TGAGCCTGCC TTCCTCACCA CCTAGCCATA GTCTCAAACC 180
 TGTGGGGAAG GNGGNNTTCT CCCTGCCCGG GAAGAGGACA GATAACTGAT TTCCGTTCTT 240
 TTGACTGTGT TTTAAAATTC TCTTCTAAA 270

SEQ ID NO:5430

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06463

SEQUENCE DESCRIPTION:

GATCTCCTGG GACTCCGAGC AAGGCCTGCA CGAGAGAGGG CTGAAAGGCT GCTGGGGCTG 60
 CCACCTCGCT ATTCCTCGCAT AAGCATCTGC CCCCACCCC TTGACCTTC ATCTGATGGA 120
 CATTTTATA CAGAAAACAA TAAAGATTTC CCTCTCAGCA AA 162

SEQ ID NO:5431

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06464

SEQUENCE DESCRIPTION:

GATCAGTTGT ACTAGAGGAA CATCATAGAA GAGAAAAATC CAACTCTTTA TATTAAAAAT 60

NAATACAATA AGAAAATTGC AAA

83

SEQ ID NO:5432

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06465

SEQUENCE DESCRIPTION:

GATCTGCAAG CCCTGCTGTA CAAGAAAATC ATTAAGGAAC ATTTGGAGAG TTAGCTACTA 60
GCTGCCTAAG TGTGCACTTT CAATCTAACT GTGAAAGAAT CTTCTGATGT TTGTATTATC 120
CTNCTTATAT TATATTANCA AAATAAATCA AGTTGTGGTA TAGTCAAA 168

SEQ ID NO:5433

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06466

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCCTC CCAAGGTGCT GGGATTGCAT GCATGAGCCA CTGCACCCAG 60
CCAAGATACA TTGTGACGT GAAAAAAAAA TTTCAAGATA TATAGAACAG TGTAACATG 120
CATCCAATTG TGTTTTTCAN GGAGAAAATA ATGTATACTT GTATTGGTTT ACGTATGAAA 180
CAAAANTATC TAGAAGGATG AATAAAAATC TAGTAACTGA TTNTACACTA GGGCAAATTG 240
GAAACAANTG GGNGACTTCA TGGATGACTT TTTTATATTT GTAAAGTGA NGTGANTGTN 300
TTACTTATTC CACCAGTTAN GTTGAAACCT TTNNNNGGNA GGTNGTGGT GNTTNTN 357

SEQ ID NO:5434

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06468

SEQUENCE DESCRIPTION:

GATCAGATGG CTTAGAGAAA TTCTGGAAT ATTCACATTC GAAGATTCCT TATTAATNAA 60
TGTCTTTNAC TTAAATCTAA CCAAAAACTG CAACATTATT CTTTGTACAT TTNCATTATA 120
TAGTGTTAAC AAGCTTAGTT GCANACAANT AAAATACTTA AGCTATTTGT TTAAT 175

SEQ ID NO:5435

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06469

SEQUENCE DESCRIPTION:

GATCTGGTGA AACTNGCTAA ACGNCTCAAG AAGGAGAAAG TTAATNTTGA CATTATCAAT 60
TTNNGGGAAG AGGAGGTGAA CNCAGAAAAG CTGACAGCCT TTGTAAACAC GTTGAATGGC 120
AAANATGGAA CCGGTCTCA TCTGGTGACA GTGCCTCCTG GGCCCAAGTTT GGCTGATGCT 180
NTCATCAGTN CTCCGATTTT GGCTGGTGAA GGTGGNNN 218

SEQ ID NO:5436

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06470

SEQUENCE DESCRIPTION:

GATCACAGTG GGCAGCCGGC ACCCNGCACC ACTTTGGCGA GCGTCCTGCT TCCGNCCTCG 60
 CCCTCATCTA CGCTGCTCCG CTTTCCTCAG ACCCCTTTT GCCGTGCAAA GGGAATTCTT 120
 GACATTAAAT AAAAGGTATC CAGNTTGCAG AAA 153

SEQ ID NO:5437

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06471

SEQUENCE DESCRIPTION:

GATCAGTTGG GTGCACGAGT GGGTTACATC GAACTGGATT ATAGGAAGCT TATAACAAGA 60
 ATGGAAGATT CTAAATAAC TCACTTTCTT TGGNATCCAG TAACAGTAGA TGTTCAAAAT 120
 ATGTAGCTGA TTAATACCAG CATTGTGAAC GCTGTACAGC CTTGTGGTTA TTAATAAGCA 180
 AGTTACTACT AGCTTCTGAA AAGTAGCTTC ANAATTAATG GTTATTNTA NACTGCCCTT 240
 CCNTGGCTGN TACTTTNCCC TAAGNTNAAT CTNCGAGAAT CTGAAATGNT TNCTNCANTT 300
 NTCAGGGAGN 310

SEQ ID NO:5438

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06472

SEQUENCE DESCRIPTION:

GATCACATTN GATNAAAGAG CAAAACCTGT TAAGTCCAAA ATAAATTCTT ACTGTTTATA 60
 TCCTAAA 67

SEQ ID NO:5439

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06473

SEQUENCE DESCRIPTION:

GATCCACAGA AGGTCTGGT GGTATTTGTA ACTTTTGGCA AGGCATTTTT TTATATATAT 60
 TTTTGTGCAC ATTTTTTTTT ACGNTTCTTT AGAAAACAAA TGTATTTCAA ANGTATATTG 120
 ATAGTCGANC AATTCATATA TTTGAGGTGG AGCCATATGA ATGTCAGTAG TTTATACTTC 180
 TCTATTATCT CAAACTACTG GCAATTTGTA AAGCNATATA TATGNTATAT AAAGGTGATT 240
 GCNGCNTTNC ANTGTAGCC CCNGTGNN 268

SEQ ID NO:5440

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06474

SEQUENCE DESCRIPTION:

GATCCAGGCT CAGAACTTCT TCTCCAGCTT CACCCTGATG AAGCTGAGGC ACTCCTCCGC 60
TCTGGGTGGG GCCAGCCTAG GGGCCAGGCA CATCGGGCAC CTNCTCCCA TGGACTATAG 120
CGCCAATGCC ATTGCCTTCT ATTCTACAC CTNTTCCTAG GGGGCTGGTC CCGGGCTCCA 180
CCNGGTCCAA GCTCAGTGGA CACTGGGTCT GAAAGGAAGG AGTCTTTTGN TTCCTTTCTC 240
CTNTTTACAN GAACAAACAT AGATGGTAAA TAAATNNACT TTNTCCNNCT CCCCAGAANN 300
NAATNN 306

SEQ ID NO:5441

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06475

SEQUENCE DESCRIPTION:

GATCAGCTAC ATAAACGGC CTGAGTGCTG TTTAAACAG CNCTGGGTG ATGGTACAAC 60
ATNACTTTT AAGATAATNA NGTAGAAAA GTTCTAGTG GAAACATGAA A 111

SEQ ID NO:5442

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06476

SEQUENCE DESCRIPTION:

GATCCCAACA TTTTGGCAG TGAGCATTAC GATGTTANCC GTGGGGTGCA AAANATCTGA 60
ATAAAATTTA CAAAAGGAGA ATTCAGACAG ACCAACCTGG GTNATGTGT TCAAGCTCTG 120
CCCCAGGAGC TTGAATGTCT NTNCCTNGTG GCAGGAGCAT TCCTAGAGAC TGGTGCATCA 180
GGTTTTATGT TGTTGTCTCT CTGCTCCAGC TCACCCNTNA AANCTCTNCC CTNGGATGTT 240
GGAATCANA TTCTN 255

SEQ ID NO:5443

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06477

SEQUENCE DESCRIPTION:

GATCCCATAA AGCTACGAGG GGGACGGGAG AGGGCAGTGC AATGGGAAGT AAAGAGATAT 60
TTNCCAGTAG GAAAAGCAAT GCTTCTTGT CTTAGACTC AAATGCTTAG GGAACGTTTC 120
ATTTCTCATT CATGGGAAA GGCAGCCTCC TTAAATGTTT NCTGAAGAGC GGTAATCT 180
AGAAGCTTAA GANTTTNCAG TTCCTTCAAT AACCATGATG ACCTGAAGTN CACCTATCCC 240
ATTTAGCAT CTNCTTGTTT TNCCATCTC TNCTTTCCA ATTTNCTTA TNCTGCTGTA 300

ATATTTTGT AAA

313

SEQ ID NO:5444

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06478

SEQUENCE DESCRIPTION:

GATCAGCTCA CACCCAGTCT CTCACAAGTN TTCATTCCAT AAAAGTGGTT GACTAAAGTG 60
 AATATGTCCA TAGTGGGGTC TTTTAATCCC TCTGGTCTTA CCANGGGTTA GANGTCTNTN 120
 GGTNTAACT TTTCCATATT GTTAGAACAT CATGGNGACA TCATGTNCAT CTGTTCAAAA 180
 TTACAAGAGG CTTTNTCAAG CTCTACCATG CTTTGNAN 218

SEQ ID NO:5445

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06481

SEQUENCE DESCRIPTION:

GATCATTGTG AAGGCAGGGG AATGTATGTG CACATCTGTT TTGTAAGTGT TTAGATGAAT 60
 GTCAGTTGTT ATTNATTGAA ATNATTCAC AGTGTGTGGT CAACATTCTT CATGTNGAAA 120
 CNTTAAGANC TAAATGNTC TAAATATCCC TTGGACATTT NATGTCTTTC TTGTAAGGCA 180
 TACTGCCCTG TTTAATGGTA GTTTACAGT GTTCTGGCT TNGANCAAAG GGGCTTAATT 240
 ATTGATGNNT NGGATN 256

SEQ ID NO:5446

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06482

SEQUENCE DESCRIPTION:

GATCCGGAAG CGAATTCATC TCCGAGCTGA GGATNCCTTG TTTTNTTTG TCAACAATGT 60
 CATTCCACCC ACCAGTGCCA CAATGGGTCA GCTNNACCAG GAACACCATG AAGAAGACTT 120
 CTTTCTCTAC ATTGCTACA GTGACGAAAG TGTCTACGGT CTGTGAAGCT GCTGCCCTG 180
 AGCTGGAGGG GGGTCTCATT CTACAAAGAG AGAGGTGGCC CCCCTTCTT GACCTGCTCC 240
 TCCTTCAAGC TTAAACANCA CCTCCTTATT CAGGACCGGC ACTCTTAAT GTTTGTGGG 300
 CTTTCTNTCC AGCTNTCTT NGGNGGGGTA ATGGGTNGGA GTTN 344

SEQ ID NO:5447

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06483

SEQUENCE DESCRIPTION:

GATCTTCTA GGAGGGAGAC ACTGGCCCT CAAATCGTCC AGCGACCTC CTCATCCACC 60

CNATCCCTCC CCAGTTCATT GCACTTTGAT TAGCAGCGGA ACAAGGAGTC AGACATTTTA 120
 AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGNCACGT GGGCTCATAT GGGNCTNAGA 180
 GTAGTTGTCT TTCCTGGCAC TAACGTTGAG CNCCTGGAGG CACTGAAGTG CTTAGTGTNC 240
 TNGGAGTATT GGGGTCTGAC CCCAAACAAC TTTCAGNTTC NNTAACATAC TGGGNCTTGA 300
 CTGTTTTNTC TNGGTNCCNN ATGGGTCCTG GTTN 334

SEQ ID NO:5448

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06484

SEQUENCE DESCRIPTION:

GATCTAGAAA GCCCTAAGCT CTCACCACTG GCTACCTGA GCCTCTACAG AATNAGGAAG 60
 TAAAGTCTAA GGCAGTTAAA 80

SEQ ID NO:5449

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06485

SEQUENCE DESCRIPTION:

GATCGCANCT CCGAAGACGG AGAGGAGGGA AATGGGGCCC TTCCCTCT ATTGCATCCC 60
 CCTGCCCGNC TCCTTCCCCG CACCCACGTG CCCTAGATTC ATGGCAGAAA ATGNCCAAAT 120
 CCNGNGTATT TGTTGTANAT ANTTAAN 147

SEQ ID NO:5450

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06486

SEQUENCE DESCRIPTION:

GATCATTGTA TATNACACAC ATGTATCAAA GTATCACATG TACTCCAAAT GTTGTACAA 60
 CTATNATATA TCATTAAAAA AATACAAANT AAAAAATGTA GCTATGAAA 109

SEQ ID NO:5451

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06487

SEQUENCE DESCRIPTION:

GATCCAGTGT GCAGAAGAGC CAGCAGGGAA CCGGAAGCTC TNATGTCAAG GCCAGAGCAG 60
 TTGAGANTGG GNCCAGAGT AGATGCTGAC CTGGGCACTC CACCATTCCG GGGCCACCAC 120
 AGAGATGCCA GCAGGATGCC ACTTNCAG CCCGACACAC GGACCTTNT AAAGANCAGC 180
 AACAGGCAGG AGAGGCAGCG TNTGNCCAGA TTGTTTCCCG TCATTGGGTG GCATNTGTTA 240
 NCTAGCTGNC AAACANCTTC ANCCCGTGTA ATTN 274

SEQ ID NO:5452

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06488

SEQUENCE DESCRIPTION:

GATCACGGCT CTTTTAAGC CCTGGCAGCA TTTTGGTCCC TGCTCCTTGC CCATAGTAAA 60
ACAGCTTGAA ATATCCCATG CAAGAGAGTA GTTCAAGTG GGCAACTCTG CTCTCTATTT 120
AAAAGCGTGC ACAATCAAAA GTACTATGCA ATTTAGGAC AATAAAGANC ATACAGTTTT 180
AAA 183

SEQ ID NO:5453

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06489

SEQUENCE DESCRIPTION:

GATCACCACT GGGCACTAGA TGATGTNGAA GAAGAGCTCA TGGCCAAANA CCTCCACTTC 60
GAAGGCATGT TCAAAAAGGA ATTACAGACC TCTATTTTTT GAAGACCGAG CAGGGATTAG 120
CTGTGTCAGG AACTTGGAGT TGCACTTAAC CTTGTAACCT TGTTGGAGC TGGCACCTCT 180
TGAAATAAAA AGGGAGGNTG CACGAGCTGG GCAAA 215

SEQ ID NO:5454

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06490

SEQUENCE DESCRIPTION:

GATCAAAAAA TTCAATTTNC TACAAGTTCT NCTATCTGAA ATAAATAACA GACTCATTTT 60
TGACAATAAA 70

SEQ ID NO:5455

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06491

SEQUENCE DESCRIPTION:

GATCANGNTA GTGGTGTCTG TCAGCTGTCT AAGAGGTTGG AGAATNAACT ACTCAAGATA 60
GTCACGAAAA NACTGAAAGT TTNATTTTCC TTTCCATATT TAAN 104

SEQ ID NO:5456

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06492

SEQUENCE DESCRIPTION:

GATCCCAGTT ATCCTTGNAT CCATGTAATT TCAGATGAAT TATTAAGCAA ACATTTTAAA 60
GTGAATTCAT TATTA AAAAC TATTCATTTT TTCCTTTGG CCATAAATCC NCTAATTNTC 120
ATTAAAATTC TAAGGTCATT TCAACTGTTT TAAGCTGTAT TNCTTTAATT CTGCTTACTA 180
TTTCATGGAA AAAANTAAAT TTNTCAATTT TAAA 214

SEQ ID NO:5457

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06493

SEQUENCE DESCRIPTION:

GATCCAGAAT AACTTCTCCC ACTCATATCT NCAGTTCACC NAATGAAATN AATGGATAGC 60
AAGAGCCCNT TGTTCCAGG ACTTTAAGGC AAAATATTAA AANTN 105

SEQ ID NO:5458

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06496

SEQUENCE DESCRIPTION:

GATCCTTTTA TAAATTAAA AAATTTAATG TTAATAAAGC GAGGTGTAAT TGTA AA 56

SEQ ID NO:5459

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06498

SEQUENCE DESCRIPTION:

GATCCGNGAA AGGCTGAAAG GCCAGGAAGA CAGCCTAGCC TCTNCAGTGG ATGCTGCCAC 60
CGNACAAAAG ACCTGTNACT CCGACTGAGG CATGNCCTGC CCN 103

SEQ ID NO:5460

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06499

SEQUENCE DESCRIPTION:

GATCNTGGAT NTAGAAGAGG TNACATTGCA CAATGTTTGA ATAAGGAAAC TATTGGAAAG 60
TTTTTCCAAG CTGACATTGC AGAAAATGCT TTGNAAAATT CCTCAGAAAC AGAAATACCT 120
ACTGTCAGCG TTTAGCTGA TGAAGANTTC CTTCCCTNCA AAGAAAATAC ATTTGACCTG 180
GTGGTNNGCN 190

SEQ ID NO:5461

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06500

SEQUENCE DESCRIPTION:

GATCCCGCCC ACTCAGAAAA GCGGAGAAGG CTTTGTAATT TTCTACATGA ATCAAACACA 60
GAAACAAC TTGAGAGAAAT TAAATTCTGA GTGTNACTTC TGAAG 105

SEQ ID NO:5462

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06501

SEQUENCE DESCRIPTION:

GATCTTCTTC ACACCAAGCT CTGTTTACAT TCCGAGAGTT GTCATGAAGA AAGTNCNTNT 60
CAATAAGNTT TTGGAATGTT AAA 83

SEQ ID NO:5463

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06502

SEQUENCE DESCRIPTION:

GATCAGGACA CGAGGAAGAG TAAATGTGAG ACAGTCAATG TGACTTCTGC GATAAACAGA 60
TTTTTAAACC CCGAAATTTT GCAAAATTTT GGTGAACCTG ANCTNCTTC GTTGCATATG 120
CTGGCACTAT CTGTACCATC ATACANCTGT CTCACATTAA AGCTATTTTC CTTGGGCAAA 180

SEQ ID NO:5464

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06503

SEQUENCE DESCRIPTION:

GATCATCTCC CCTGGCAACG TGACTCTGTT TTTTGTGTGT GTTCCATGC TGACTAGTCC 60
CCTACTGTTA ATATCACTAC TAATTAGGCT ATAACCAGGT CTTTCCTGGC CTGAGAAATA 120
TTCTCTTAAA ATNACCTTTG TTTTAATCTC ATTCATGATG TTGATTTTTT TTCAATGTGG 180
TGCAATATAT ACANTAAAAA TNGTCATANC TAAA 214

SEQ ID NO:5465

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06504

SEQUENCE DESCRIPTION:

GATCTGTCCA GGGAGGTGGC TGAAGAGTGG GCATCTCCCT TAGGGACTCT ACTCAGCACT 60

CCATTCTGTG CCACCTGTGG GGTCTTCTGT CCTAGATTCT GTCACATCGG CATTGGTCCC 120
TGCCCTATGC CCCTGACTCT GGATTGTGNA TCTGTAAAC TGGAGTAAAA ACCTCAGTCG 180
TGTAAC 186

SEQ ID NO:5466

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06505

SEQUENCE DESCRIPTION:

GATCTTTGCT TCCTTNCAT TATGTTTGTA CACAACACCT AAAACCAGTT TTGCTGCTAT 60
ANTTCATAC TGTGATTGCG TCTGCNANNT ATCTGTAACC AAATAAACAT AATAGGN 117

SEQ ID NO:5467

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06506

SEQUENCE DESCRIPTION:

GATCCAAACC AAAGACTGTA GAACCCTGGG GTGTGGCTAA CTGCCCCNTN CNGCACCCTG 60
AGCCAGGTCT TCCTGCCCT TNAGGCTGGG CTGGCGGACA GGCACCTNCC TGTTCCTTAA 120
GCTGAAGCTC CCACACTGTC TTCCAGGGCT GAGGAGATGC TCTCCTTTC TACTGACCAT 180
CTTGATACTT ATTTATACGA GAGNCAGTTG CTGGACGGGG TAGTACTGGG AAGCAGGAGG 240
CAGAATGGCT CTGCTGAGCC TNCNACCCAT GGNCAACANC CTAATAAAAC AGANCATTTC 300
AGAGCCAAA 309

SEQ ID NO:5468

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06507

SEQUENCE DESCRIPTION:

GATCCCATAC CAGAAGATGA GAAAAAGAA TAAGTGTTCG CTGTTTTGT GTGTTCTAAA 60
TACTTTTTNT AATGAAAAAA TGNTTTTNG TTTTAAA 97

SEQ ID NO:5469

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06508

SEQUENCE DESCRIPTION:

GATCATCTAA ACTAAGTCCA GCTGCCTAAT TCTAGATATA TATATATATA TAGAGNTCCA 60
CCATAAA 67

SEQ ID NO:5470

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06509

SEQUENCE DESCRIPTION:

GATCTTGGGA AGTATTCCCA AGGAAAACAG TCCTGGGCAC AGTCTCCAAA ATAAATTCTN 60
AATTTTGGGA AA 72

SEQ ID NO:5471

LENGTH:467

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06510

SEQUENCE DESCRIPTION:

GATCCCATGG CTTTCTTTAC TGGGCTCTGG GGGCCCTTCA CCTGTGTAAG CAGAGTGCTG 60
AGCCATCACT GTTTCAGCAC CACTGGGAGT CTGAGTGCGA TTCAGAAGAT NACGCGGGTA 120
CGAGTGGTGG ACAACAGTGC CCTGGGGAAC AGCCCATACC ATCGGGCTCC TCGCTNCATC 180
CATGTCTATA AGAAGAATGG AGTGGGCAAG GTGGGCGACC AGATACTACT GGCCATCAAG 240
GGACAGAAGA AAAAGGCGCT CATTGTGGGG CACTGCATGC CTGGCCCCCG AATGACCCCC 300
AGATTGACT NCAACANCGT GGTCTCATT GAGGNCAACG GGGAACCCCTN TNGGNGACAN 360
GTATTNAAGA CACNGTNCCC ACCTAGGCTG TGGNAGGGTG AAGGGCGAGT TTTCCCAAGN 420
TGGTGGGCCT TNGTTNAGAN CTTTGTGTTG NGTTTGGNNC NNGNTAN 467

SEQ ID NO:5472

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06511

SEQUENCE DESCRIPTION:

GATCTTAAC NTCTTGACTG ATTTAAAAAG CTAATCAATT TATTAAAGCC AGANATGTNC 60
TCCTCTGGGA AAGCAATTC TATCTATTTA TCTACCAATC CCCACTCACA TATATATGTT 120
TGTNTTTACA TAGAGATAGA TGGTTTTAAG GGTTTTCTTA TTGTTAAATT ATTCCTAAG 180
ACATTGTGGG NTGGAGACCA CTAAACTTAT AAAAAACCAA GGAAAGTAAA GTTTTNCAAA 240
TGTTTATACT GTTTAAGGTG TTTATTTATN TAANCCATGC ATGGGGTNNC ATGCATAANT 300
NNNGNGGTTT AAATTCACC AGTGANN 327

SEQ ID NO:5473

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06512

SEQUENCE DESCRIPTION:

GATCAAGGAA CTTGTGCCTG TCTATAGATT TTATTTCCCC TGTACAAATA AACTTGGCTG 60
CAATCCCAA 70

SEQ ID NO:5474

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06513

SEQUENCE DESCRIPTION:

GATCTTGCAA GACTAAAATT GGCCATTAAG TACCGTCAAA AAGAGTTTGT TGCCCAGCCC 60
AATTGTCAAC AGCTGCTGGC ATCTCGCTGG TACGATGAGT TTCCAGGCTG GAGGAGAAGA 120
CACTGGGCAG TGAAGATGGT GACATGTTTC ATAATAGGAC TTCTTTTCC TGTCTTCTCT 180
GTGTGCTACC TGATAGCTCC CAAAAGCCCA CTTGGACTGT TCATCAGGAA GCCATTTATC 240
AAGTTTATCT GNCACACAGC CTNCTATTTG ACTTTTTTGT TCCTGNTGNT GCTTGCCTCT 300
CAGGACATAG GCAGGTCAGG NNTGANCNGG GAAGGTCCAC CANCACCATC GTCGAGTGGA 360
TGATATTGNC NTGGGTNCTN GGNNNATGTG TTANNTAGGA AATGTNATAA ANCN 414

SEQ ID NO:5475

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06514

SEQUENCE DESCRIPTION:

GATCAACAAT NAGCATCAAA TCTATGGCTC CTGGCTCCAG CANCAAGACG CAAGAAGACA 60
GGANGAGAAG CANGAAGTGA GACTGGAGGG AAAGGGAGCT GAGTCTNCTA GN 112

SEQ ID NO:5476

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06515

SEQUENCE DESCRIPTION:

GATCATTCTT TTATAGAGCA TATTTGCCAA TAAAGCTTTT GGAAGCCGGA AA 52

SEQ ID NO:5477

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06516

SEQUENCE DESCRIPTION:

GATCTAACTT TGCACCTTTT GATAATAATG TTTTAGATAA TGTGCGTAAT CCAAATTGGT 60
ATTGTAGCCT CTGTTAACAC AGACAGTATA TGTTTTAAAC TTTGATGTAA ACCTTTTNAG 120
ACCCAAACTT GTGGAAGTAT CATGTGTAA GTNCTCTGTC TCTGTTTCTT TGTTCATTTA 180
TTACTAAAT GAACCTGTTA TTAAAGTATA TGCAAAATNTG AAA 223

SEQ ID NO:5478

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06517

SEQUENCE DESCRIPTION:

GATCCGGGGN AGCTGTATCC CCAGTAGAAA AACATTTTA ATCACTCTAA TATAACTCTG 60
GATGAAACAC ACCTTTTTTT TTAATAAGAA AAGAGAATTA ACTNCTTCAG AAATAACTAA 120
TAAATGAAAA ACCTTTAAAG GAAA 144

SEQ ID NO:5479

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06518

SEQUENCE DESCRIPTION:

GATCTTTTGA CGNNTATANA AATGTACTAA TGTNATAAGT TAATGCTGGN CATTTCAATT 60
ATATATATTT TTAAGAGGCT AGAGGCTTTT AGCTTTTAA AACTCCATTA TATACAN 117

SEQ ID NO:5480

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06519

SEQUENCE DESCRIPTION:

GATCTTTTCA TCTCATGCAG ATATTTCTAT TGTGGGCTTA TACATTTGNT CACCTATTGT 60
TGATGGNACT TGNACTTTC CATTTTGGCG CTATTACAA TAGGCACTAT GAATGACTGA 120
TGNACCACTT ACTTGAGCTT TATGNCTTAT TNTCAAAGCN GCAAAATN 168

SEQ ID NO:5481

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06520

SEQUENCE DESCRIPTION:

GATCAGTTAT GAAGAAGGGA AAGCTTTGGC AGAATCTTGG AATGCAGCTT TTTGGAATC 60
TNCTGCTAAA GAAAATCAGA CTGCTGTGGA TGTTTTTCGA AGGATAATTT NGGAGGCAGA 120
AAAAATGGAC GGGGCAGCTT CACAAGGCAA GTCTTCATGC TCGGTGATGT GATTCTNCTG 180
CAAANCCTGA GGACACTGGG AATATATTCT ACCTGAAGAA GCAAGCTGCC CGTCCTCCTT 240
GAGGATAACC TATGCTNCTT TTTNCTCCTG TTAACCTGNA AGATATCATT GGGNTCAGAG 300
CTCCCTNCCT TCAGATTATG TTACCTCTGA GTCTGTCCAA TGAGTCACTT CCATTTCAAA 360
TTNNNNGCAT CNNTTTCAN TGTGTATGTN GNATN 395

SEQ ID NO:5482

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06521

SEQUENCE DESCRIPTION:

GATCTTCCAG AGAAGGGAAC ATCTGTCACA GACAATGACT GTATCTGTNT AGATATTCT 60
TATTTAATAA AGACGATTG TCAGTTAAA 89

SEQ ID NO:5483

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06522

SEQUENCE DESCRIPTION:

GATCAGAAAT GCCTCCTTTA CCTACCAGAG CCTACAACAC TACCTGCCAC TAATAGTTAT 60
GTCACCCTCT TATTAATCAT CATCTAGCCC TAAGTCTGGN CTATNAGTGA CTACAAAAGA 120
TTAGCTGAGT GAATAAA 137

SEQ ID NO:5484

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06523

SEQUENCE DESCRIPTION:

GATCAGGGGA AGAATACCAA CCTGCATAAG TGTACTAANT CTACGTCTGG TTAATGTATG 60
TACTCTCCTG GACTGAATGC AGTGTATAAT TCCTGTCTAC ANTAGAAGTG TGCCCCAGTT 120
CCACATTGGA TTACACATGT GAGATTGCT GCTGTTGCAT ATAACACTAG GNTAATAGNT 180
TTGNATNCAT GCAGTCATAA AAATTGGAAT GAGAATTAAN CTGCAGGAAC ATTTGNACGN 240
TNTCTNCNCN 250

SEQ ID NO:5485

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06524

SEQUENCE DESCRIPTION:

GATCAGAACC AGAAAGAACT NTGCTTNACC GAGAAAATAT CTAAACATCG AAAAAGTTAA 60
ATATTATGGA AAAAAACAT TGCAAAATAT AAAGTAANTA AAAAAAGGAA GGANCNN 117

SEQ ID NO:5486

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06525

SEQUENCE DESCRIPTION:

GATCTAATGC AGGATGTCAG ACTTNTNTCT ATCCAGGAAT AAAACCAAGT ATGCCAGAAG 60
TAACTATTAT NCACCTNTCT CCTACTGAAT TAAATACTA TCAGTTGTAT ATNAAATN 118

SEQ ID NO:5487

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06526

SEQUENCE DESCRIPTION:

GATCACAGTT TTCAGCANNT CAGACATGGT CTTGNGTAGT TGTTC AACAG TGTTCGCCAG 60
CTACAGAGGA AANGNCAGAC TCACAGAAGG GTGTCATTGA GAAGAAAGAA CACTAATN 118

SEQ ID NO:5488

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06527

SEQUENCE DESCRIPTION:

GATCCTCAAC GAAATCAATC TCACAATAGG NAAGGAAAAG NCAATACAAG GAAGAAACCA 60
TTGAGAAGAT GCAGAATAAA GTAATCTTAT ATACANGCTT TGATTAACAA TTGAAACAAA 120

SEQ ID NO:5489

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06528

SEQUENCE DESCRIPTION:

GATCGCCATC ANTTGGGTAG TGACAGNGTA TTAATTTGCT TATACANTTN CTTTACTNTC 60
CTTTTTTCCT TTCTGGAGCA TCACATGCTG GTGCTGTGTC TTTATAATGT N 111

SEQ ID NO:5490

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06529

SEQUENCE DESCRIPTION:

GATCCTACAG ATACAAGTTG CTAAANGGGC ATATCAACAG TCCAACAAAT AAAGAAGATG 60
CCTGGATTGA GCATGATGTT TGGAGATGGA GATTTATGTG TCTCTGGGAT TGTGGGTGG 120
ANTACTGGTC TGTGGCTGTN ACANCTATTC CTCTGTGAGT GACTCTTGCA TGGAGAGATT 180
CATATATTCA GGCAGCTAGG ATTGTTTCCT TACTGGGAC ATACACGATT GANTTTNCTG 240
AATANGGGTA GTTAANCATT GTATGTTACN CNCACTTTTG TGCTTTTCCT CCATTGTGCC 300
NTATTAACGC TCTTTCGCNT CTGNGAGAGT CTGAGTTAGC TGGTGGAGCG CCAAATACAA 360
CTGGTTGTCC GTGTGTNCTT TCCCTTTGTC ANTGGTTTGC CACATCAGTT TGTGNTGTAT 420
GN 422

SEQ ID NO:5491

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06530

SEQUENCE DESCRIPTION:

GATCCCCCAG ATACCAGCTC TTCTGGNTAT ACACAGACCA GCTATAATTN GCTAAGCATA 60
AANTATTNCA GTGTATTAGC CAGCNGTGGC TCCAGAGTCT GTGCCCTTGA CCACCGTGCC 120
CAACTGTTTC ACATGCTGTG TTTGGTAGTT TNNCCTAGTG CTCTCCTTAA TAATGGTGGT 180
GTNTAGCAAA NN 192

SEQ ID NO:5492

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06531

SEQUENCE DESCRIPTION:

GATCATTAGG TCAGAGTTTA CACGNCCTCT CGTCACTAGA ATCCACCCAG CCCACGAATC 60
ATCACCCNCT TGAAGGACAT TATTACTACT GNAANTTNGA ACAAACNT 108

SEQ ID NO:5493

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06532

SEQUENCE DESCRIPTION:

GATCCATCCA GAACAGCGGT ATCTGAAGCC CAGGCCATAC TCCCTGCCTC CTTNCTTCTG 60
CCTACCAGAG GCTCCANAGT TGAGCTTGTC CNTTATCTAG AAACATGTGA AGATGCCCAA 120
GAGCCTGGAG GCACTGCTGT CCTTCCTNCA GAAACAGTTT CTCCTCCTNC CCTCAGCCTT 180
GTGGCCANTT CCNCTTCACA TGAAGCCCCT TGGCATTTC TNGGGAAGGG ACTNGCCTGG 240
TACTTGCTGT TAGGGCAGGA AGGGGCAAAN GGNNGACTTT GGGTAAGTAA TCTGGGGGGT 300
TTAGATGGGN AGCANTAAGC CAGCTNNGN 329

SEQ ID NO:5494

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06533

SEQUENCE DESCRIPTION:

GATCATGCTT GTNTNAGGCA ATCATGGTGG CATCACCCAT AAAGGGAACA CATTAACTT 60
TTTTTNTCA TATTTTAAAT TACTACANGA TTATTAAAGA TAAATNATT TGAAAAACTC 120
TTAAA 125

SEQ ID NO:5495

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06536

SEQUENCE DESCRIPTION:

GATCATGAGA CTGAAATTGG TCAGAATTGT GTCCAGAATG TGCTCAGCTA ATTCAGTATT 60
 CTTCCCCATT CTGGGTTGGA GTTTACTGCA GAGTAATTCT TACAGTGCTG ATGTCAAGAC 120
 TGTTACTGTT CTTGACTTT GATTCCTTGC TCATGACATG AGTAGGGTGT GCTCTTCTGT 180
 CACTTCACAC AGACCTTTTG CCTTTTTTAG CTGCAAGTCA AGGACTAGGT TGATGATGCN 240
 CATGACCTGT AATTGTAAAG ANGCTTGGNC ATCTGCAAAT GATATTNAGA CCATCTNGGC 300
 TTGTGCTTNN ATTCAACTA ATGTGAACCA ATANGTN 337

SEQ ID NO:5496

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06537

SEQUENCE DESCRIPTION:

GATCCATGAT GATAATTAAG AGAAGAGAAA AAAAGATATT ATTTTGTNA GGACAAACCA 60
 TTGTAGGTTT TTAGCAATGT GTATCTGTGT GTCCCTCACA CCTTTTCCTA TTCTACTTTT 120
 TTTTCCTTTT TTTAAAAATA TTATGTACTA TATTTTNAGT CTCAAACACA CTATATATTA 180
 TATATNTNNN NNNN 194

SEQ ID NO:5497

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06538

SEQUENCE DESCRIPTION:

GATCATTTCT AGGCAAAATT GTGAAGCTAA TGACCAACCT GTTCTACCT ATATGCAGTC 60
 TCTTTATTN ACTAGAAATG GGAATCATGG CCTCTTGAAG AGAAAAAAGT NACCATTCTG 120
 CATTTAGCTG TTTTCATATA TTGCATNTCT GTATTTTTTG TTTGGATTGT AAAAAGTTCA 180
 CATAATAAAC GATGGTTGTG ATGTAAA 207

SEQ ID NO:5498

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06539

SEQUENCE DESCRIPTION:

GATCCAAGTG ACCAAAGGAG TTCAAGGCC AAAATTTAGT TATGCTGGAT TAATTCTGAG 60
 AGTAACAAGC ACATAGATTA TAATCTAAGA AAACCCTTG TAGCTATGCA TNGTCGGGAG 120
 AGCATCTAAC ACTAATGGTG ATGTTTCCCA TGCAGAGACT CAGATTACAG TGACTCTTCC 180
 AGTGAAGACA GATGAAAGCC ATGGGGCATT GTNCCTTNT TAATCCAAGC TAAACTANCC 240
 AAGGATATAG GGGTGTGTAT GTGTCTGNGT GTGTGTGTTT GTNTGTGTGT GCACATACAT 300
 NTNTAGGTAT GGTGTGTGGN 320

SEQ ID NO:5499

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06540

SEQUENCE DESCRIPTION:

GATCTGTCTT GGTCGTTTGT GTTATAAAAC CAAAGTTCTC TACAGACTTT ATTTTGTAC 60
AATATCATTT TGTAACTTT TACAAATAAA AACTCATTTT TATTGCTCTC TGAAA 115

SEQ ID NO:5500

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06541

SEQUENCE DESCRIPTION:

GATCACTTAC GGAGAAACAG GAGGAAATAG CCCTGTCCAG GAGTTCCTG TGCCTGGGTG 60
CAAGTCTACA GCTACCATCA GCGGCCTTAA ACCTGGAGTT GATTATACCA NNACTGTGTA 120
TGCTGTCACT GGCCGTGGAG ACAGCCCCGN AAGCAGCAAG CCAATTTCCA TTAATTACCG 180
AACAGAAATT GACAAACCAT CCCAGATGCA AGTGACCGNT GTTCAGGGNA GCAGCATTAG 240
TGTCAAGTGG CTGCCTTCAA GTTCCCCTGT TACTGGTTAC AGNGTANCCN NCGCTCCNA 300
AANTGGGCCA GGAN 314

SEQ ID NO:5501

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06542

SEQUENCE DESCRIPTION:

GATCTGGGTT TAGAGTGTGT ATGATTAATA AATATACCTT TCCTCTTTTC AGGGAAAATA 60
ACAACCACCC NTACTGATAG TTGGGAAAAG AAGATTGGGT TATTTTNCCA TATCATTTAG 120
CTGGAAAGTA CATTAAAAG CACCCTGCAT CACTAGTAAT AGTGTATTN NCTATTCTGC 180
CCTTGTAATC GGTGTCCCTG TAAACANTC CCCACAGATT ACTTTCAGAA ATAGATGTAT 240
TTCTCTNCGT AAGGGCCAGG TTTATTTCTT CCTTTTTTGN GATNNNNGGN GGAAANTGCT 300
GCTTGCACAT TN 312

SEQ ID NO:5502

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06544

SEQUENCE DESCRIPTION:

GATCATCCTG TAAACATTTT ATCATGTATT AATCATCCCT GCCTGTGTCT ATTATTATAT 60
TCANATCTCT ACGCTGGAAA CTTTCTGCCT CAATGTTTAC TGTGCCTTTN NTTNGCTAG 120
TATGTGTTGT TGAAAAAAA AACATTCTCT GCCTGNGTTT TAATTTTGGT CCAANGTTAT 180
TTNAATCTNG TACAATTAAA AGCTTTTGCC TATCAAA 217

SEQ ID NO:5503

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06545

SEQUENCE DESCRIPTION:

GATCAGGTTG AATGAATGGA ACTCTTCCTG TCTGGCCTCC AAAGCAGCCT AGAAGCTGAG 60
 GGGCTGTNTT TGAGGGGACC TCCACCCTGG GGAAGTCCGA GGGGCTGGGC NAAGGGTTTC 120
 TGACGCCAG CCTGGAGCAG GGGGGCCCTG GCCACCCCT GTTGCTACA CATTGTCTGG 180
 CAGCCTGTGT CCACANTATT CGTCAGTCCT CGACAGGGAG CCTGGGCTCC GTCCTGCTTT 240
 AGGGAGGCTC TGGNAGGAGG TCCTCTCCN NATCCCTCCA TCTGGGGCT CCNCCAACCT 300
 NTGCACAGCT CTGCGGGNGC TGAGATATNA ATTN 334

SEQ ID NO:5504

LENGTH:87.

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06546

SEQUENCE DESCRIPTION:

GATCTTTTAA AGGTTTNNAC CATTTTGTNA TGAGGAATTA TACATGTATC ACATTCACTA 60
 TATTAAATT GCACTTTAT TTTNAAA 87

SEQ ID NO:5505

LENGTH:323

TYPE:nucleic acid.

TOPOLOGY:linear

CLONE:HUMGS06547

SEQUENCE DESCRIPTION:

GATCCATCCC ATGATTGTN CCTGTCTGAG GCATAGAGGC AGGCAAGCCG TGGATTTTNC 60
 ACATGGTGAC TTTCCCACTG TGCCATGATA CAGTGTGCAT CTTATAGCAG TGCCTTTNTG 120
 TCAGGGTCTC TGCTGGCAGT CTAGACCTTT TGGGCAGAAA GGAGCTTCAA ATGGCTGTGA 180
 TAAGGAATAT TAAAAATNGT GTTCTACTT TAATTGTATT GGCTGTTCAT GTATGTAGGA 240
 GTTAAATAG GCCAACTGG AGAAATAAGC GCATTCTGTC CACCANAAAN GTGGNTTGGN 300
 TGGTNNNTGT NNGNTTNGGN GGN 323

SEQ ID NO:5506

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06548

SEQUENCE DESCRIPTION:

GATCAAGTTG CCATGAAAAA CCATCTACTA TATGTNAGAC ATGACATTCT NTTTCTCTCC 60
 TTCCTGAAAA ATAAAGTGTG GGAAGAGAAA 90

SEQ ID NO:5507

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06549

SEQUENCE DESCRIPTION:

GATCTTACTT TCTTGCTGCT TTTCCAATA TAATCATT TT GCTCTTGCTT TAACAAAAGN 60
NGNGGCACAG NAATTAGTA AATTGTGTA ATAACATT TA AA 102

SEQ ID NO:5508

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06550

SEQUENCE DESCRIPTION:

GATCTCACCA CTGCACTATA GCCTGGGCGA CAGAGCAAGA CTCCCGCTCC AAAAAANGGA 60
GAAA 64

SEQ ID NO:5509

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06551

SEQUENCE DESCRIPTION:

GATCCACAAA TCGCTAGGAA TGTGTATACT CTGGGTAGTA AGTTTGTAGT ATTAGAAGGT 60
TTAATGACAA GTATTGAAG AGCTGAAGTT AAGTGTGGG AGGCCATCCC TTATGAAGGA 120
CAATGAATGG CAAGTAAAAG ACCAAGTTCT GTTCTGGGT CCATTAATTT AGTAAAAANG 180
GCAAAGTTCT TTCAGCACAC ATATCTGCAT GCAGTCACGT GCTGCCTAAG GNTGCTTCAT 240
TCAACANTGA GCCTCACAGC CGTGCTACAC ANTAGGATAN TACTGTATTT TTNCTGTACC 300
TTTTAACATT GTGTTACAAT GGCCTACAAG AGGCTTGTGT GGNTGGCTTT NNNTGTGGGN 360

SEQ ID NO:5510

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06552

SEQUENCE DESCRIPTION:

GATCATCCTC ATTAGCACAC AGATTTTNA AATCAATTC TCTNGCCATG CCTCCTATGT 60
GTTACATCT CTGCATACAC TACAGATATA AGTGCATAAT CATTCATATA NACATCTGGT 120
AGGTATTCTG TAAACTGTG TTTACTTTAG TGCATGTNAT TGCATGTNA TGATGTGACT 180
GGGGTGTTTC TTTGTGCATG AAACCTTGCT TCTNCACAGA NNTAGATTAC TGCTCTCTCT 240
ATATNGANCT NCATATACAG CGTTTCTTG TTATCAGCCC CCCNAAGTCT GGGATGCCCC 300
GTGGTTGGTG NTGACATGTG AGTGGTGNC TGGGNGGTCT GNTNCACATA GGGGCNN 357

SEQ ID NO:5511

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06553

SEQUENCE DESCRIPTION:

GATCTTTTCA GCTGCTATTT TGGAATAATG ACTATCATAT ATCATAACAG TGA CTGATGT 60
TGGTTGTAAT GGT TGGGTTT AGGATGAACC ATTTTAAGGA TGCCAAATNA AATATTAGTA 120
TTGTACACA GTAAGAAA 138

SEQ ID NO:5512

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06555

SEQUENCE DESCRIPTION:

GATCCCAGCA GGGNTTCTGC TCTGGGGCTG GCAGGTTGCC TGGTATTATG CCCAAGGNCG 60
NTCTGCCTGG GGGAAAGGGC AGCCAGGCAG AGGCCCAGTG TCTAGTAGGC NGCTGAATTT 120
CCTGGAAGGG GTGATTGGTT GGAAAGNGGN CAGNAACCCC AGCCTNN 167

SEQ ID NO:5513

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06556

SEQUENCE DESCRIPTION:

GATCCCTTGG AGCACCTTNA TGCCTGGGGT TTCTCTCCCT AAAGCTTCTT GCAGTCTAAG 60
CCTTATCCCT TATGNTCCCC ATTAAGGAA TTCAAAGA CATGGAGAAA NTTGGGAAGG 120
TTGTNCTGA CTGCTGGNNG CAGAAATAGCC GTGGNAGGN 159

SEQ ID NO:5514

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06557

SEQUENCE DESCRIPTION:

GATCTGGACA AATGGCAAAT AATTTGGGGT TGAATTATGG CCCAGAGAAG TAAGCAAATG 60
NAAACTAAA CANTTATAAA TGTATCTGGG AAGCAAAGGT ATTCATANTA NGTCCCATGG 120
CCAGCTGCGA GCAGTATTTA ACTAGACATG CTGTTGTCAA TANNNNN 167

SEQ ID NO:5515

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06558

SEQUENCE DESCRIPTION:

GATCGTCCCC CTTTNTGGGC TGGAAAAGCA GGTGAGGNTG GGGTGGGCTG AGGCCATTNC 60
CGCCACTATC TGT TTAATAA AATCCGTGAG CACGAAA 97

SEQ ID NO:5516

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06559

SEQUENCE DESCRIPTION:

GATCCTCCGG AAGTAGTCTC TNCCCTCGGC AGCGGAAATA CTGATTCCCA CTGCTCCTNC 60
CTCTAGGGTG CAGTGTCCGT ACCTNCTGGA GCTGGNCCCT CCTTCCCCAN CCCAGACATT 120
GAGAAACTTG GGAAGAAGAG AGAAACCTNA AGCTCCCAA CAGCACGTTG CGGGAAAGAG 180
GAAGNGAGAG TNTGAGTNTG TGTGTGNTT TTTCTATTG ANCAN 225

SEQ ID NO:5517

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06560

SEQUENCE DESCRIPTION:

GATCATTAAAT AAAGCTTTTC TTGGTTCCTT CAGTGGTGTT GGTAGTAAAA TGGAAGGNGT 60
CTTGCTGCAG GTAACATAATG AAGANGTGGT CAACCACAGA GTCTTCAAGA AATAAGAAAT 120
TCTGTACCAN CTGAAAGTAG TGCTTGTTGG TGCCTTCNTT TAAAAAGCAC TCTTTTAAAT 180
AAAAGGGAAA TGTTTTCTGA TAAACCAAAC ATTAGTTGA GGTCTTGAT ATAAACATT 240
TACAANNIGA GTGTGTNTG TAAAGCAGTA GCCNTCATT TTGGCTAGNG AGNTAAATGN 300
GTCANGTTTT ANCTAGGTTT TNGTGAGTNG NCAGGTTTNN 340

SEQ ID NO:5518

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06561

SEQUENCE DESCRIPTION:

GATCAAAGCC AGTNTTAAAT GGGAGACCGA GCGAGCGCGG CAAGTGCTGG AACACCTGCT 60
GAAGGAAGGG TTGGCGTGGC TGGACTTACA GGCCCCAGGG GAGGCCCACT ACTGGCTGCC 120
AGCTCTCTTC ACTGACCTCT ACTCCCAGGA GATTACAGCT GAGGAGGCCA GAGAAGCCCT 180
CCCCTGACTG CATGTGGAAG GGCACACAGC AGCAGGCAGG GAGGAGGCGG AGGTGGCAAA 240
TAAACCTGGG CAATTTTGT TATACAAAAA ATAGAAGAAA AGTTCCAAGT TTTCTTTCT 300
TCCCTCATT TTTNTTTTT GAAAAAAGAN 330

SEQ ID NO:5519

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06563

SEQUENCE DESCRIPTION:

GATCTCATGA TGATTANAC CACAGNCTGG GNTAAAGATG TCTTGACCTC TGAGGCTAGC 60
ATAACATATA TNAGAATACA NCTTGCTAT TTCCAGAAAA TCTGTATATT N 111

SEQ ID NO:5520

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06564

SEQUENCE DESCRIPTION:

GATCAGCTTA CTGAAAAGAA GCCTCCNNAG TATTCCAAAT ACAGATTACA TCCAGCTGCT 60
TAGTGAAATT GCCAAGGNAC AAGGNTTTAA TATAACATAT TTGGATATAG NTGAACTGAG 120
CGNCAATGGN 130

SEQ ID NO:5521

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06565

SEQUENCE DESCRIPTION:

GATCNACAAT NTGAATATGT GTTACTTAAT AAGGCTAGGC TGGCCATCAG TNGCTTANTT 60
CAGATGTGTC ACTAAATTC CCNTCTAGAT GGTCTTGAG CAAAACCTAA TAN 113

SEQ ID NO:5522

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06566

SEQUENCE DESCRIPTION:

GATCATCACA GTTTGAGTTT GACCCCAATG CCAGGATGGT GACACACATA TTAAAGAGTA 60
ACAGCTGGTT ACATTGCTAG GCGAGATAGG GGGAAGACAG ATATGGGTGT TTTAATAAAA 120
TCTAATAATN ATNCATCTAA TGTATTATGA GCCAAAATGG NTAATTTTTC CTGCATGTTC 180
TGTGNNTGTN GAAGATGAGC CTTGCAGATA TCTGCATGTG TCATGNNGAA TGNTTCTGGA 240
ATNCTTNACT TGCTNTTGGG NTTGCACTGG N 271

SEQ ID NO:5523

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06567

SEQUENCE DESCRIPTION:

GATCTCACTT TCCCCTTGTG GGGTAGGAAC CGATGCCAGT GGGAGGGATG TGCCCCTGAC 60
CATTAACGAC TGTTTTTTTT TTTTTTTTAA AAAAAATGGN GTTNTTGGGN GGGGNAATNC 120
ACANAN 126

SEQ ID NO:5524

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06569

SEQUENCE DESCRIPTION:

GATCACGGGA ATGCTGCTGG AGATAGACAA CTCTNAGTTG CTGCACATNT TAGAGTCCCC 60
CGAGTCTCTC CGCTCCAAGG TGGATGAAGC TGTAGCAGTT CTACAGGCTC NTCATGCCAA 120
GAAAGAAGCT GCCCAGAAGG TGGGCGCTGT TNNNNN 156

SEQ ID NO:5525

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06571

SEQUENCE DESCRIPTION:

GATCCTTCTA GACCAAGGAC CCATTGTAA AAGCATGGAT TCTGCCTGAN TTACTTCCCT 60
TTTGAGAAAT CATATCTCAA ATACATAACC TGGTAATATA ACTGAAAAAA TAAAAGTGAT 120
TGCTCCTTCC AAA 133

SEQ ID NO:5526

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06572

SEQUENCE DESCRIPTION:

GATCCCTGCT TCATAGATT GCATCATTCA AGCATATCTT GTAAAACAAA CACATATTAT 60
GGGACTAGGA AATATTTATC TTTCCAAATT TGCCATAACA GATTTAGGTT GCTTNCCTTN 120
CTTTGAAGGA AAGTTAATT ACATTGCTCT NNNNNN 156

SEQ ID NO:5527

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06573

SEQUENCE DESCRIPTION:

GATCCTAGCT GCAGATTGCA TCCCACAATG CGAGAATAAT AAAATAAAAT TNGATATTNG 60
AAA 63

SEQ ID NO:5528

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06574

SEQUENCE DESCRIPTION:

GATCNATGGT GTGACTCAAG CTCNCCTTA CCCAGGGGGG GTAAGGGCAG GCCTCTAGCT 60
ACTTGGAGTT GTCTGTAATA ATCTNGAAAG GCCCAAGGGC CTGTGCCCCAT CCTGACTNAA 120
AGGNATCTCC TTCCCTGTTT CATATCATAT GACAGAGAAA CCTGTTCTCA TGGCATGNAA 180

CATCCCTGTN AAGAGAGCGT TGNCNNN

207

SEQ ID NO:5529

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06576

SEQUENCE DESCRIPTION:

GATCTTGAC ATGAAGCTAC AAAACTGGTA AGAAACAAAT GGCACATGTG NTGGGAATGG 60
AAGTCAACCT TTTTGAATTT TTCAAATGTA AGTCAGTCTG GAAAATCCCA GTAAATTGGT 120
ATATTTGTTT TGGGTTATTT TTGAAGACCT CTTTAAAAAT TTGCCTAAAA TAAATNCTCG 180
GTATGCTAAA 190

SEQ ID NO:5530

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06577

SEQUENCE DESCRIPTION:

GATCCGCCGC CAGAAAGGTT ATGCATCATG TGCCACAGCC TCCAAGGTGC CCATCATGGA 60
ATNTCGTGGG GGCTGTGGGC CNANTGCTGC CAGCCCACCC GCAGCAAGCG NCGGAAATAC 120
GTCTTCCAGT GCACGGNTGG CTCCTCGTTT GTAGAAGAGG TGGAGAGACA CTTAGAGTGC 180
GGCTGCCTCG CGTGTTCCTA AGCCCTGCC CGCCTGCNTG CCACCTCTNG GACTCCAGCT 240
TGATGGAGTT GGGACAGCCA TGTGGGACCC CCTGGTGATT CAGCATGAAG GANATGAAGC 300
TGGAGANGAA GGTAAAGGAG GAAGAGANTA TTANGTATTT N 341

SEQ ID NO:5531

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06578

SEQUENCE DESCRIPTION:

GATCTNTTCC AACAGTTCTN TGTAACCAA ATGCTATTTT TCANTGCATT TGGACTGCTG 60
ACCATTTAAA AGCAGCCTAT GATTGCTTCT TTTGTAAAG CAAGCAACCN GCCTCCACTT 120
TAGCTGTTTT NACTATTNGA TNTN 144

SEQ ID NO:5532

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06579

SEQUENCE DESCRIPTION:

GATCCTAAAA CGAAGAGAAT TTTGACTCTC CAGAAAGCTA ATAGCTGGTT CAACTGCAGG 60
AAAAATTGAA CATTACTAAT TTGAATGGAA AACACATGGT GTGAGTCCAA NGGAGGTGTT 120
TTCTGAAGA NCTGTCTATT TCCTCAGTCA TTTTAACTT CTAGAGTCAC TGATACACAG 180

AATATAATCT TATTTATACC TCAAANNGAN TNANANGGGG NNNN

224

SEQ ID NO:5533

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06580

SEQUENCE DESCRIPTION:

GATCTNCCTC NACACCTNGG GCAAAGTCTA TGCGAAGATG GTTCTTAGC TCTCCATTG 60
 CCATGATTTT CCTCCCATTC ATCATGAGGG AGTTTCTCAA ACCAGGAGTT NATATTTATT 120
 TNTNAGAAAA TACACACTTT TCAGGAGAAA CCTGAGCATG ATTTTGGATT CTCCACCTCC 180
 CCCCAGTCTC GGNNNCTGGG ATTCAGCTCA AGGNTTCAGT GTCTTCATT TTACAAAAGT 240
 TCCCCAAGA AATCAGCAAC CAGCCTCTGT TTCATCTGGG AGCCCCTCCC TNGGNCCCCT 300
 GGGTTTTGGG GGTGCTGNC CTACTGGGG AACAGCGGG GGTGN 345

SEQ ID NO:5534

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06581

SEQUENCE DESCRIPTION:

GATCATNTTG GAACAGACA AGAATCCAAA GAAAATAAGA ACACAGACCA CCAGTGCAAA 60
 ACAAGAAAA GCACCAAGTA AAAAGCCAGT GAAAAGAAGA AAAAGAAGA GAGCTGCCAN 120
 TTAAAGCTAA CAGTTGTATA TCTGTATATA TAACTATTAA AAGGGATATT TATCCAAA 179

SEQ ID NO:5535

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06582

SEQUENCE DESCRIPTION:

GATCAAAGTT AAGNTTATAT CCTGTTTGTA GTATCAGATA TNTTCCTGTG TACAATTATA 60
 GGATTGTAAT CTACACTGGA ATTTNAGGC AGTAAGTCAC CACAAAATGT TTAGATAAG 120
 ACACAATAAA ATTATTATAA ATAAAAGCTT AATGTTTGTA AAAANTCTCT TTTTAGTAT 180
 TTCTTTTTTC ACATGNAAGN NGTGGTGGCT GCTAAANAAA NAGCTACAGT GTTTATTANG 240
 GGTGTTTTTG ATTTNTGTNA NTCTTTGTAA ATGGTCAGT GCCTGTN 287

SEQ ID NO:5536

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06583

SEQUENCE DESCRIPTION:

GATCCCAGAG GCTCTCTCA CCTCANCTGA GCTCCTTTAA AAGTAATTCA AGGGACTATG 60
 TCACTCAGCC TCATTTNCTG GACCAAATCT GGAGGGAGAA CCCCTAAAAC CCCTAAGTAA 120

GGTTGCCAG GGGGTTGTCC CCAGGTGGG GGAAGCAGG GAGAGAAAAT GGTAGCCATT 180
 TTAACATTGT TTTGTATAGT ATTTATTGAT TCAGGAAACA AACACAAAAT TCTGAATAAA 240
 ATGACTTGGA AACTGAAA 258

SEQ ID NO:5537

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06584

SEQUENCE DESCRIPTION:

GATCGCTTGA GGCCAGTTCA AGACCAGCCT GGCCAACATG GCGAAACCCG TCTCCACTAA 60
 AAATACAAAA CTTAGCCAGG CGTGGTGGCG CGCGCCTGTA ATCCCAGCTA NTCGGGAGGC 120
 TGAGGCAGGN GAATCGCTTG AACCCGGGAG GTGGAGGTTA CAGTGAGCCA AGATTGCACC 180
 ACTGCACTCC GGCCTGGGCA NCATNGCGAG ACTCTGTCTC AGNNAGGAGG GGGGGGTTNN 240
 NNTANTNN 248

SEQ ID NO:5538

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06585

SEQUENCE DESCRIPTION:

GATCTGAAA GAGGACAAAC TACATTGCCT TTTAGACCTN TGA CTCAAGA AGAAGATGAT 60
 GACCAAAGGT GATTGTAAAC TTAACATGCC TTNTCCTGAT NTTGAAGGAT TTGTGAAGGG 120
 AAAAAAATTC TNGGCTCTTT GTATATAATA AAATGAGACT ANANGCATTC TNNAAAAAAA 180
 AAAAGATTAA NTTTAGAN 198

SEQ ID NO:5539

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06586

SEQUENCE DESCRIPTION:

GATCCCCACA CTTACTCTAC CCTCTNGGCA AATTGGCATT CCGGTGGTGG GTTTTGTNTC 60
 CTTTAACACA TTAATAAAT NAGTATATAG GATGTGAGGG GAGGGGTGAG ANCAACTAGC 120
 TGTAGCATGT NTAGGCTATA TACTTTACCA NTTGACTTCT TTCCTGTTTT TTTTNAAAA 180
 NAAAAAAN 188

SEQ ID NO:5540

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06587

SEQUENCE DESCRIPTION:

GATCTGGGTG TGCTCTATGG GGAGTNTGA CGTCAAANAG CAAATGTCTA TAAGGGGCC 60

TTTTAAATN AACATTTTCC TCATTGAGCA AGCNTGGATT CTCTAATGTA GAAATCAAGC 120
CATCTTNATA ATTNCACN 138

SEQ ID NO:5541

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06588

SEQUENCE DESCRIPTION:

GATCCTCCCA CCTCAGCCTG CTGAGTAGCT GGGTCTACAG GTGCACACCA CCATGCCTGG 60
CTAAAGGCAT GTCTGCATTT ATGCGAGGTG TGTTGACCGG GTGGGGAGGG AGCTAGGACT 120
GAGATTGCCC TGTNTAAAAT GCACAAAAG GGTTTGCTAA GCAAATTGAT ATTTGAACTA 180
AAAGATGGAT TAGGGTGAGA GACTTAGTTT ANTCAGGAAT AGTNGCAGAG NCANCCACAN 240
CAANAANTGN ATTTCCCTGN GACAGCCGTT TGTACGTACA GCAGGGNNCT GGTTCACAGN 300
TTTCACGGAG GGNGGNTAGG GTTCTTNTAC TN 332

SEQ ID NO:5542

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06590

SEQUENCE DESCRIPTION:

GATCAAAATNA TTTGACTATT GCTAGACATT TCTATACTCT GTTGTAACAC TGAGGTATCT 60
CATTTGCCCA TGTTAATTTT TTTCTAAATA AATTGACAAA AACAAA 106

SEQ ID NO:5543

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06592

SEQUENCE DESCRIPTION:

GATCACAGCC TCCAGGGCCC CCCAAATCCC AGGGAAGGAC TTGGGAGAGA ATCATGCTGT 60
TGCATNTAGA NCTTTCTGCT TTGCACAGGA AAGAGTCACA CAATTAATCA ACATGTATAT 120
TTNCTCTATA CATAGAGCTC TATTTCTCTA CGGTTTTATA NAGGCCTTGG GGNTCCAACC 180
AGGCAGTAAG ANGTGCTTCT GAACCGCAAG GGGCGNACGA CTGGAAGTAA AATAGTTTGT 240
TTTTNCANT TCGNGGGNAG GGGNNGGN 268

SEQ ID NO:5544

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06593

SEQUENCE DESCRIPTION:

GATCCAATTA ACAAATTCTG CACTGTGGCA ACTNAACGAN ATTATGCTTT GGACAGCTTT 60
ATGTGTGAAT GTAAGAACAT ATTCTNAAGA AATGCTGTAA CTTTATCCCA TATANCTTCA 120

TANGAATTC TCTATAGGCT TGGNATTGTC AATAAAAATA GAGGATATGT TGGCAAA 177

SEQ ID NO:5545

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06594

SEQUENCE DESCRIPTION:

GATCANACAG CCTACANCCA GCCCCGAGTG TGCATCANGG TAAAAGAGCT GAGGGCTCTC 60
TNCAGGGAGC AGCCCATTTA GGTCTCTGTN GTTGTGTGA GGGAN 105

SEQ ID NO:5546

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06595

SEQUENCE DESCRIPTION:

GATCATATNA GACGAGNAAG AGGAAGACCT AAAAGTGCAT CTGCCAAAA ACATGAGGAA 60
GAAAGTGAGA AACAGGAAAA GGAAATTNAC ATCTATGCTA ACCTGTCTGA TGAAAAGNCT 120
TTCGTGTTTT CAGTCGCCTT NGCAGCENN 149

SEQ ID NO:5547

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06596

SEQUENCE DESCRIPTION:

GATCAGTGTG AGTCCTGAAG CACTTTNAGN GCTGTGNGAA CGACATCCAC TTTGGGTTTC 60
ATTTCGTTTGT AAGCAGAGGA GCTGTCAGTC ACTCGTGCTT GTCGGTGGCC TCTGAGCCAT 120
GGTGTGAGT GAAGAGTAGT TCTTGTGTTGT TACAACCTTT GTGAGTCAGC CATGCCCGCA 180
AAGCGTGCTG TGTTTTAGTC CTGGTAGGAA TATTTATNAG AGTTCACACT ATGTAAAACC 240
CAACNGCTTC ANCTATTGCC CTTTCAACAG TTTTGCCACT GACCGGATAG AACCGGTTTC 300
AGTCTCTGGA TGGGTGTGTT TGGTGGGTTT GTAACCATTG ACGGGTTTAA ANCCATGGGT 360
TTNAAGATTG GGCCCAAATA ACCAGNAATT TTGTTCCGGG GAGGGGGTTN N 411

SEQ ID NO:5548

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06597

SEQUENCE DESCRIPTION:

GATCATAAAA GGCTATTATC TATNCTGGGG AACGATTATA ACTTAAATAA TTATTTTAAT 60
AAAAATACTA AGCTNNAAA 79

SEQ ID NO:5549

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06599

SEQUENCE DESCRIPTION:

GATCATCTCG CAAGTGCTCT NGTGCCTAGG ATTCATCTTT CTTTTCACCG TAGGCCCTGA 60
CTGGCATTNT ATTAGCAAAC TCATCACTAG TCGTNGTNCT NN 102

SEQ ID NO:5550

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06600

SEQUENCE DESCRIPTION:

GATCAAAACG ACGAAGAAAN GNCNCANAGA CTCAAATAAG GACAGAGTGA TTTCCAATAA 60
TGTTCAATAG ATTTAGGAGC AGAAATGCAA GGGGCTGCAT GACCTACCAG GACAGANCTT 120
TCCCCAATTA CAGGGTGACT CACAGCCGCA TTGGTGACTC ACNNNN 166

SEQ ID NO:5551

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06601

SEQUENCE DESCRIPTION:

GATCTCAGTT TCAAATCTCC CCAAGCTGCC TAAATTGAAA AAGCTTGAAC TCAGTGAAAA 60
TAGATTCTTT GGAGGTCTGG ACATGTAGC TGAAAACTT CCAAATCTCN NACATCTAAN 120
CTTAAGTGGA AATAANCTGA AAGATATCAG CACCTTGGA CTTTGAAAA AGTTAGANTG 180
TCTGANAAGC CTGGNCCTCT TTANNTGTGA GGTNCCAN 219

SEQ ID NO:5552

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06602

SEQUENCE DESCRIPTION:

GATCTCTTNG CGACAGTACC AAGCACGGTT CTCTACACAG GTGACTNAAG TTGCCTCTGT 60
GTTGGCTGGC ATCCCTGAGT CCCCTNCGGG CTCCTATGGA NCNN 104

SEQ ID NO:5553

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06603

SEQUENCE DESCRIPTION:

GATCATCTGA GCCTCAGGAG GTTGAGGCTG NAGTGAGCTG TGACTNCGCC ACTGNACTCC 60

AGTCTGGGAC AACAGAGCAA GACCCNGTCT TAAA

94

SEQ ID NO:5554

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06604

SEQUENCE DESCRIPTION:

GATCTCCAGC TGCACAGGCC ACCGNCCCAG GGCCTGGCCG CTGTTACAGA AACAATAAAC 60

CCTGATGGGC ATGGCAAA 78

SEQ ID NO:5555

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06605

SEQUENCE DESCRIPTION:

GATCGTAACA ATGCCAAGAA GACACAAGAA TATGAGAAAG GAATTCCTAG AAAAAAGGCA 60

AAGGTTTCAA TGAATAAGCT AATTTTCT AAGTCTACTG ATAACATACT CCCTACCCCA 120

TCCTCCATTA ATAAAGANT GGTGTTGTA TTGTATTATG AGGGAATTAA AAGTGTGATA 180

NGANANNNNN N 191

SEQ ID NO:5556

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06606

SEQUENCE DESCRIPTION:

GATCGGAGAA TTGTGTAGGC GAATAGGAAA TATCATTCGG GCTTGATGTG GGGAGGGGTG 60

TTTAAGGGGT TGGCTAGGGT ATAATTGTCT GGGTCGCCTA AA 102

SEQ ID NO:5557

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06607

SEQUENCE DESCRIPTION:

GATCTCACTT CTGTCAGATG CTCCCATCCA CTATNAATGC ACTAGGTGGG AGGAGAGGGC 60

GGCAATGACA CTGCACCTCT CCTTTCCAC CGCATTCCCT GGAGCTCCCT AAATAAACT 120

TTTTTTAACG TGAAG 135

SEQ ID NO:5558

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06608

SEQUENCE DESCRIPTION:

GATCAAGTAA AAATGCAAAT CAATGATGCA AAGAAAACAG AAAAGAAAAA GAAGAAAAGA 60
CAGGATATTT CTGTCATAA ATTAAAGCTG TAATATATTT NNANTATAAT GTAAATATTA 120
ATGTGTAAGC TTATATTGTG TCATTGTNCT GTTTATAAT AAAATNCTTG AGAACCTTCA 180
AA 182

SEQ ID NO:5559

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06609

SEQUENCE DESCRIPTION:

GATCTTGACC TCACGGTGTA AGAAGGGAGA GGATGGTTTC TCTTCTGCCC TCTCCCATGG 60
TGCCCGTGCC TCTNTGCTGT GTATGTGAAC CACCCACGTG AGGGAATAAA CCTGGCACTA 120
GGAAA 125

SEQ ID NO:5560

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06610

SEQUENCE DESCRIPTION:

GATCTTTTGA GATACAATCC TTATTTAAAA AGGAGAAGAT AACTGAGGAT TTTAAAAAGA 60
AGCCATGGAA AACTTCCTA GTAAGCATCT ACTTCAGGCC AACAAGGTA TATGAATATA 120
TAGTGTATAG AAGCGATTGA AGTTACAATG TTTTATGGCC TAAATTTATT AAATAAAATG 180
CACAAAACCTT TGAAT 195

SEQ ID NO:5561

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06611

SEQUENCE DESCRIPTION:

GATCTTGTGC TCAACATGAT NCNTTAATAG AAGTTTTATN TTTNNGTGCA CTCTGCTAAT 60
CATGTGGGTG AGCCAGTGGA ACAGCGGGAG ACCTGTGCTA GTTTTACAGA TTTCTCCTA 120
AATNCGCGG N 131

SEQ ID NO:5562

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06612

SEQUENCE DESCRIPTION:

GATCTAATAG CTGAACTGAT TCAAACTGTA ATAAGCTCAT CAATTTTANT TCTATGAAAA 60

TGTGCTCTGT TGTACAGGA TGTTCCTGTT GGTTCCTGTT ATTCCTGGG AATTGGTAAA 120
 CATCATGTTT CNGATGATAA CCCAGTAGCA AAANCATTG TNCTGTGTGG TACAAGCCTT 180
 NGGGACTGNN AAANAN 196

SEQ ID NO:5563

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06613

SEQUENCE DESCRIPTION:

GATCCCATAA TATAAATCAT ATCCTTTATA TTNAGAATA TCTCAAATGT ATTCCTTTTT 60
 TGTATGGTGG GTTGCCTAG GGACGTGTAA CTACAGGCTT TACTAAGCC AAGGAAAAAG 120
 AGAATTTTNC TTTTCATCTT ACAAATTCCA GATATCTACA AANGNTGTGA AAGCACTAAA 180
 AGNNGNNTT TTAAGCAGTA CTTTACCTGT TTTTCCTTTA GCAAACCAGG TTATGTGGTG 240
 TAAAGGTTTG TNATACGTGC CACAATATAG CATATAAATG TTATGCCATC ATTCCTTCTC 300
 TTGTTAN 307

SEQ ID NO:5564

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06614

SEQUENCE DESCRIPTION:

GATCTATACA TGAACAGCAG AATGTATAAG CTAGCATTGA CTAGCATGTC TCTNATACTT 60
 TTGTNCATTT CTGTTAATCG TCATTTCTGT CCCCTCTGCA TGGAATTTNA TACTTGTCTA 120
 GGGTAAGAGT TTGTAGACTC TTTCAGCAGA ACAGATTTTA ATAACCAATT TATNTGTTTT 180
 ATTTTAAA 188

SEQ ID NO:5565

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06615

SEQUENCE DESCRIPTION:

GATCAGCACA TCCAAAAACA CCAAGACAAA CATCCATGTG GAGCAGAACC TNTCCTGCCT 60
 CGGGAGTTCT GACCAGGTTT CCCAGCAGGG TGTTAAGCCT CTGTNTCTGG CCCTACCAGC 120
 ATNCGGGTTC CACTTTTCCT AGGAGAGNGT GGAGATGGGN NGACAGGGAA AGGNNGGN 178

SEQ ID NO:5566

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06616

SEQUENCE DESCRIPTION:

GATCTATCAT TTTAATTGAT TCTGAAGCTT GTATTAAAAA CTAGGCAATA NCATCATGGG 60

ATACATAGGA GANGGCACAT TTTACAATCA TNCATTNTGG CCNN

104

SEQ ID NO:5567

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06617

SEQUENCE DESCRIPTION:

GATCTGCTGA CAAACCTGG GAATTGGGT TGTGTATGCG AATNTTTCAG TGCCTCAAAC 60
AATNTGTAT TTAACCTATG TAAAGATAA GTCTGGAAT AAATGTCTGT TTATTTTGT 120
ACTATTTAAA 130

SEQ ID NO:5568

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06618

SEQUENCE DESCRIPTION:

GATCATTTAA CATTCTGTGT ATGTAACAAA ATATCACATG CATAAATATT ATGTATCAAT 60
AAAATTTTTT AATGGGCAAA 80

SEQ ID NO:5569

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06619

SEQUENCE DESCRIPTION:

GATCCGGTCA CTGCACTCCA GCCTNGGAGA CTACAGCAAG ACTCTNTCTC CAGTTAAA 58

SEQ ID NO:5570

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06620

SEQUENCE DESCRIPTION:

GATCTGAGGG GTGGTGCCTA CTTCCACTGT AAGAAAGAAT CTNGGTGGAT TTGTGTNTCA 60
AATCANGATA AGAGAAGCCT GTTTAAAGGA GCAGATGCCA TCTNCTGNCT TCCTCAAGGA 120
GCCAGTTAAA AAACCAGAGC ATTCCTTTN ATTGAAAAAT AAAATTAGTT TGTTATCAAA 180
ANNNGGTN 188

SEQ ID NO:5571

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06621

SEQUENCE DESCRIPTION:

GATCATAAAC CGTTGCGGGA CAGAAAGTTAG ATATGTGATT GATTATNATG ATGGTGGTGA 60
 AGTCAACAAG GACTACCAGT TCACCATCCT GGACGTCCGT CCTGCCTTAG ATTCACTTTC 120
 GGCAGTATGG GACAGAATGA AAGTCGCTTG GTGGCGTTGG ACCTCGTAAA GCACTGTTTC 180
 AGATGGAAAA NTATAANCTA TTTTNTCTG AGCGATACAT TAACTATTT TCCCAGAAA 240

SEQ ID NO:5572

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06623

SEQUENCE DESCRIPTION:

GATCCTCATC TTCCCCAAAT ACTCGTTCCC AAAATTGACG AGCCTGACAA TGTGCATGCC 60
 AGGCAAGGCT CTTGGGGTTC CCCTAAAACA CTTCTCTTT TAAGCCTACC ACTCACTCAT 120
 CATGAATATA GTCCATTGTC CCAGGGTGTA AAACCTCTA TAGTGTTAAA TAAAAGANTG 180
 ATTGGGGAAC ATTGAAA 197

SEQ ID NO:5573

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06624

SEQUENCE DESCRIPTION:

GATCTGGCTC AGTCTACTAT GGGCAGGGCC CCCACCAAG CTGAGCCGAA TGGAGACAGC 60
 TGAGCTGAGG CCTGACTTTT TCAATAAAAC ATTGTGTAGT TCTGGGAAA 109

SEQ ID NO:5574

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06625

SEQUENCE DESCRIPTION:

GATCTGAGCT GATGACTTGT GAGAGAAAAA GGAACAGAG TAAAGCCATG GAAGCCATGA 60
 ACAGTAAGAG ACTGCCGCCT GGCATGGTTT CTTCTTCTGC AGAAGATGAA ACTGAGGAGA 120
 AACAGACAA CATCCTTCAT ACCAGGAATG GTCAAGATAA TGCAAGAAGA GNGNAGCTTT 180
 CAAACAANTC AGNAGGCAGT CAACAAACAG NAAGGGGNC ATTCTTCCC TGGCAGTTAC 240
 TCATANCTGA AATTGCTTAT TGTGTACACC GGGGCTTGTA CTTGGGGNAT TTAATANNAT 300
 TGCTCATTNC CAAGCTCCNA ANNNAANTTA TTN 333

SEQ ID NO:5575

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06626

SEQUENCE DESCRIPTION:

GATCGATTGC AGTCAGAGCC TGAAAGTATC CGTAAATGGA GAGAAGAACA AATGGAACGC 60
 TTGGAAGCCC TTGATGCCAA TNNTNGGAAG CAAGANGCAG AGTGGAAGA AAAGGCAATA 120
 NNGGAGCTAG AN 132

SEQ ID NO:5576

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06627

SEQUENCE DESCRIPTION:

GATCTTGGCT TCTNACAGTT CTNCCTGTCC AAACCTCATC CTGTCCCTCA GGAACGGGGG 60
 GAAAATTCTC CGAATGTTTT TGGTTTTTTG GCTGCTTGA ATTTACTTCT GCCACCTGCT 120
 GGTCACTACT GTCCTACTA AGTGGATTCT GGCTCCCCCG TACCTNATGG CTCAAACTAC 180
 CACTCCTAAG TCGTATATT AAGGCTTATA TTTTGNTGGA TTACTGCTAA ATACAAAAAT 240
 NTTTGANAGG GANNGGNGNG TGNGGNGTGT NN 272

SEQ ID NO:5577

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06628

SEQUENCE DESCRIPTION:

GATCATCCTG TCTGGCTGCA GTGAGAGACC AACCCCTAAC AAGGGCTGGG CCACAGCAGG 60
 GAGTGCAGCC CTACCTTCTT CCCTTGGCAG CTGGAGAAAT CTGGTTTCAA TATAACTCAT 120
 TTAAAAATTT AAA 133

SEQ ID NO:5578

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06630

SEQUENCE DESCRIPTION:

GATCCACAAA CTNCCTGACA CTACTIONCAT ATTTCCACTA AAGGAGATTC AGCTACAAAA 60
 GGAGGCCAGC CNTCGGTCTT CGTCGATGCC TGAATCAGGC ANGCCAGCTT TCCGCGTGGT 120
 GGACACCGAG TTCTAAGCCA CAGACCGAGG CCCCAGCAGN CAGCGGCTGG AGGGNTGCCA 180
 CANCNN 186

SEQ ID NO:5579

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06631

SEQUENCE DESCRIPTION:

GATCCACTGC CTCGGCCTCC GAAAATCTGG AATNATAGAT GTGAGCCACT GCGCCAGGCC 60
 TGTAAATTTA TGTATCTTTA TGTGATTATT TGAATGTCCC TCTCTGACTA GATTATAAAT 120

TCTAAGGATA GTGAAA

136

SEQ ID NO:5580

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06632

SEQUENCE DESCRIPTION:

GATCCCCGTT CTCAAGTGTC NCNGGGAACA TAAACNGAGA TAACATGAAA AAACCTTGACA 60
CAGAAA 66

SEQ ID NO:5581

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06633

SEQUENCE DESCRIPTION:

GATCCTTNAA GGCAGCTGCC TTATCTTATT CCTTNTTGTA TTTCCATACC TAGCCTAATA 60
CCTAGCTTAT ATAAGGGAAC AGAATAAATA AACAATAAAG AAAAGTCTTT ACAGCCTCTA 120
AA 122

SEQ ID NO:5582

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06634

SEQUENCE DESCRIPTION:

GATCCAGGGC CGTTTCATGAA CCACTGGGCT GGATTNGACT GTTGAGTGTG GCAGTTAATG 60
CCCTCAANA AATCAAAGGA TGTCTTATAA GTGTCTTCCA AAAAAAGCA AATGCTGAAA 120
TCCTATTGGC AAAGTAAACT GAAATTGGCT GCTATATTN ATATAATCAT TTCTGCAANT 180
CCCANTTNTT GNATACTNAT GTNGGACATG GTTANTTCTT ATTAATTTGT TGGAATTGTT 240
TATTGTTAGN AGTGCANATN GN 262

SEQ ID NO:5583

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06635

SEQUENCE DESCRIPTION:

GATCCTGGCC AGTACAAAGT CGTTGCTCTT GTTTATCTT CTCTTACAGA GTCTCCCTCC 60
CTTTATAGAA TGTCAACCAA AGAGTGCCCT CCTCCCCTCT CAGCCTCCTN TNNAGCTAGC 120
CTCCCATCT CATCACAACG CATGTCTGTG ACCTTTGGTA ATCATTTACA GTGCCACACG 180
GAACCCTGTA TTTTGCACAC AGCAAAACAA ACAATGTTA GCTTTATTTA TGGTATTGTA 240
TGCTGTAAAT GGAAATAAAT ATTGTTCTTT ATAAA 275

SEQ ID NO:5584

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06636

SEQUENCE DESCRIPTION:

GATCTCTCTC GCCACGGCAC CGTCAGCTCC TTTGTGGCCA AGCTTTTCAT CTTTGTGTCT 60
GCAGAGCTCT GAGCACTCGC TTCGCGTCGC GGGGTCTCCC TCCTGTTGCT TTCCTAACCC 120
TGCCCTCCGG GGCCTTAATA AAGTCTTAGC AAGCGTCCCA CACAGTGAAA 170

SEQ ID NO:5585

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06637

SEQUENCE DESCRIPTION:

GATCAGCTTT NAGAGTGGTC CTAAGCAGTA AACTGGATGA TGTTCATTA GAAAAACATC 60
AATACTTCAT ATTTAAGTNT NAGTAGTTAC TACTGATTNG ATAATCACTT AANTN 115

SEQ ID NO:5586

LENGTH:254

TYPE:nucleic acid.

TOPOLOGY:linear

CLONE:HUMGS06638

SEQUENCE DESCRIPTION:

GATCCTTG TG GACTGCCACT GCTGGCTGCC TCCTCTCCAA CTCATCAGAA GAGCATT TTG 60
ACAAAGACAG AGGACTTGGA CCAGGGCATG CCCTGTTGGG GATGTTTCTG TCAGCAAGGA 120
CATGGCATGG AATCAAGTGG GCTGATGTGT TGTATT TTA ACAGTACCAA AGTGCATTCT 180
TCAATGTATG TTTGCTGCT TGAAGCAAGG CCCAAGTTGA GAATACAGTA AAGGNAACTC 240
ATGAAAGTGA GAAA 254

SEQ ID NO:5587

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06639

SEQUENCE DESCRIPTION:

GATCCCGCCC TGACCCAGAG GAAGCCTCTA TTTATTTATT AGCTTTTGTG TACACCGTGG 60
AATTGACCCC TTCCTCCAGG GGTCTGGGT GGGGGAGCCC AGGGCCCCTG TGACCCCTCC 120
TTTCTTCCTC CAATCCCCAG TTTGTATTTA GCTGCCAAAT AAGATTCCCA TTGGNTCCCT 180
GTGTTCTCTT GGGGGGTCAG GGTGCTGTCC CCTNCNNTCT GTTACATCT CCCCTNTACC 240
CCGCTGTATC GCATATTGNN GAGTTTNTA TTTTGCAAA ATAAAGTGAT GGAAACTCAA 300
A 301

SEQ ID NO:5588

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06640

SEQUENCE DESCRIPTION:

GATCAGAGAA AATACGGTAC ATGTCCCAT GGAGGATATG GCTTGGNCTT GGAACGATTC 60
TTAACGTGGA TTCTGAATAG GTATCACATC CGANACGTGT GCTTATACCC TCGATTGTGTC 120
CAGCGTTGCA CGCCATAACC ATTTTCTCCA GAAGCGTGGA GGAAAGATTA TNNAAGGANC 180
AGGCTCTTCA AAAAAANNAN GNNAAN 206

SEQ ID NO:5589

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06641

SEQUENCE DESCRIPTION:

GATCTTCTTC ACACCAAGCT CATGGTTACA TNCCGTGAGG TGTCATGAAG AAAGTNCTGT 60
TCAATAAGGT TTTGTAATGT TAAA 84

SEQ ID NO:5590

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06642

SEQUENCE DESCRIPTION:

GATCTGTGGC TGGAATNGAG GGAGCGCCTG CTTCTTCTCC AGCTTGAAA AACAATAGGA 60
GAAGGGTCAG CTCCGCGCGG GCATCATCCC TACCAGATTG AGTGTTTTGC ACGCACTTCA 120
ATCACAAAAT AAAACAGTGA GAAAGTCAAA 150

SEQ ID NO:5591

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06643

SEQUENCE DESCRIPTION:

GATCATCATA TCAAGATGAT ACCAAAAGTA TGTA AAAAAGA AACCTGCATT ATTTTGTAAT 60
NATTTCTTAT AGATATTTCA TGGTAAGATT AGCAGTCAAT AAAGTTACTT TTTTNCCTTT 120
AAA 123

SEQ ID NO:5592

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06645

SEQUENCE DESCRIPTION:

GATCCTGCAA ATATCTTCTT TCCAGTTTGN TATTGTCATT TGNCTTTTGA CTTTGTCTG 60
GTATTTTTTG NTATGTAGAA ATNTTTATTT TCATGTAAGC AAATTTATGA ATCTTTGNAC 120
ACCATAAGTA TATACAATTA TGATTTGTCA ATTAAAAATA TTAGTACAAA 170

SEQ ID NO:5593

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06646

SEQUENCE DESCRIPTION:

GATCATCCGG TGAAAGAACC AGTCCCTGNG CCCCAAGGAT GCCGGGGAAA CAGGACCNTC 60
TCCTTTCCTG GAGCTGGTTT AGCTGGATAT NNGNGGNTTT N 101

SEQ ID NO:5594

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06647

SEQUENCE DESCRIPTION:

GATCTCCGTG GGAACATTTT CGTTGCTGTC GGTGCTGGCA GGAGCCTGTT TCTTCCTGGT 60
CCTGAAATAT AGAGGCCTGA TTAAATACTG GTTTCACACT CAAA 104

SEQ ID NO:5595

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06649

SEQUENCE DESCRIPTION:

GATCGTGCTG CACAACCGGA GAAGACAGAA TTACCTCTGC TCTTTTAATA TATAATGATG 60
GCTTTAAATA AANTTAGGAG AAAATGTCAA A 91

SEQ ID NO:5596

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06650

SEQUENCE DESCRIPTION:

GATCCAGAGA GTGGGGGTGA GGGGTGGGCC CTGAAGACTT TTTGTCTGTA GCTCTTGCAT 60
ATTGAGTGTA TAAACCCGGC TTCTGGACCA ACCCAAGATG AATAAACTGG GGCAGAAAAT 120
TACAAA 126

SEQ ID NO:5597

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06651

SEQUENCE DESCRIPTION:

GATCCTGGTG GCCACCAATN TGTITGGCCG GGGGATGGAC ATTGAGCGAG TCAACATCGT 60
 CTTAACTAC GACATGCCTG AGGACTCGGA CACCTACCTG CACCNNGTGG CCCGTGCGGG 120
 TCGCTTTGGC ACCAAAGGCC TAGCCATCAC TTTTGTGTCT GACGNGAATA ATGCCAAAAT 180
 CCTCAATAAC GNCCAGGACC GGTITGAAGT TAATGTGGCA GAACTTCCAG AGGAAATNGA 240
 CATNTCCACA TACATCGAGC AGAGCCGGTA ANCACCACGT GCCAGAGCCG GNCCANCCTG 300
 AGNCGACCGT ATTGTAGCTT TTAACNCCC TTNCCAGGC GACCATTTT TGNGAAAGTT 360
 NGAGGTTTGT TTNNTGGNT TTAACTTTN TTN 393

SEQ ID NO:5598

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06652

SEQUENCE DESCRIPTION:

GATCAGAAGG CTCTGGNCAA GAGAATGAAA ATNAGGATGA GGAATAATAA ACTCTTTTGT 60
 GCAAGCAAA 69

SEQ ID NO:5599

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06653

SEQUENCE DESCRIPTION:

GATCTCTTTG TCCCTGAGGT GTCAGCTGCC AACAAGAAGC ATTAGAACAA ACCATGCTGG 60
 GTTAATAAAT TGCCTCATTC GTAAA 85

SEQ ID NO:5600

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06654

SEQUENCE DESCRIPTION:

GATCTTGGAG TCGTGGAAT GTCGCCCCAC CGGGTCCTGC GCCGTCAGCA CAAGCCACGC 60
 TTCACCACCA AGAGGCCCAA CACCTTCTTC TAGGTGCAGG GCCCTCGTCC GGGTGTGCCC 120
 CAAATAAACT CAGGAACGCC CCGGTGAAA 149

SEQ ID NO:5601

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06656

SEQUENCE DESCRIPTION:

GATCGATGTG CTCAGCCAAA TNTCCTGTTT GAAATATCAT GTTAAATTAG AATGAATTTA 60

TCTTTACCAA AAACCATGTT GCGTTCAAAG AGGTGAACAT TAAATATAG AGACAGGAAA 120

SEQ ID NO:5602

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06659

SEQUENCE DESCRIPTION:

GATCAAAACC AAAAAAATG NACCAAAGGC TTGGGTGGTG AGGGTGCTTA TCCTTTCTGT 60
TATTTGTAG ATGAAAAAC TTTCTGGGA CCTCTTGAAT TACATGCTGT AACATATGAA 120
GTGATGTGGT TTCTATTAAA AAAATAACAC ATCCATCGGA AA 162

SEQ ID NO:5603

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06660

SEQUENCE DESCRIPTION:

GATCCTGTTC TGTAATAAAC ATATTTTGCC TTGAGTAAAT TTGTTGTAAG CTAAA 56

SEQ ID NO:5604

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06661

SEQUENCE DESCRIPTION:

GATCCTTCTT GTATCTTGAA GTTTGTACT TGGGATTCTT GGACTGATAA ATGAATCATC 60
ACATTCTTCT GGTAATATT TTCTTGAAA 90

SEQ ID NO:5605

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06662

SEQUENCE DESCRIPTION:

GATCTGAAGA AGATGATGAA GTTGTGGCAA TNATTAAGGA ATTGTTAGAT ACTAGAATAC 60
GGCCAACTGT GCAGGAAGAT GGAGGGGATG TAATCTACAA AGGCTTTGAA GATGGCATT 120
TACAGCTGNA ACTCCAGGGT TCTTGACCA GCTGCCCTAG TTCANTCATT ACTCTGAAAA 180
ATGGGAATNC NGNGCATGCT GCAGTNTTAT ATNCCGNNN 219

SEQ ID NO:5606

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06664

SEQUENCE DESCRIPTION:

GATCAACTGA ACCAGTATGC CAAAACCAGG CATCCAATTT GTAAACCAAT TATGATAAAG 60
 GACAAAATAA GCTGTTTGCC ACCTCAAAAC TTTATGAACT TCACCACCAC TAGTGTCTGT 120
 CCATGGAGTT AGAGGGGACA TCACTTAGAA GTTCTTATAG AAAGGACACA AGTTTGTTTC 180
 CTGGCTTTAC CTTGGGAAAA TGCTAGCAAC ATTATAGAAA TTTTGCCTTG TTGCCTTATC 240
 TTCTTCCAAA TGTACTGTTA AATAAAAATA AAGGGTTACC CCATGCAAA 289

SEQ ID NO:5607

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06666

SEQUENCE DESCRIPTION:

GATCTGGAGC ATTTGAANCA AGTTTATAGA AGANCATGCC AAAAACTAA GCAGGACCAA 60
 GGAAGAGCTT TNAAGGCCTG AGGTCTGCGG AAGGTGGGAG GAGGCAGACG CCCTGCNTGG 120
 CCCATGGTCG GGGCGTCCAC GGCAGGGCCG GCAACAAACG GCAGTATCTN GNATTCCTTT 180
 TTTNTTTTTT NAAATTTTAA ATNCTTTGGT NTTTCN 216

SEQ ID NO:5608

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06667

SEQUENCE DESCRIPTION:

GATCAGAATT ATAACCATGG AGAATTTTTT CTTCTGAGCA TTTTAATATA CTTGAAAACA 60
 ACATTGACTT GAAAAATTTT AGAACATTTT TCAGTACCTA GTTTTATTAA ATATTACACT 120
 TGAGAGACAC TTTTAAAAA TGTGTTAATG TCAATATGAT GAGATTTTAG CCTTCTCCA 180
 GAACTAAGGC ATTAAGAAA ATAGCAAATA TTAATAAATA AAAGTGTAC TTTTTCCTT 240
 CTTTCTTTT ACCTTTAGGT TAATATCCAG TATTATGTGT TATCCCNTTG GATAAGTATG 300
 CTTTATTTTA CCTCNGTTAA AAATTAAT AAATGATTTC TATTCATAAA 350

SEQ ID NO:5609

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06668

SEQUENCE DESCRIPTION:

GATCTNAAG AGAGCTGTCC CAGCACTCTG GCCACCAGGA GGGCCANATT CCCCANAAAC 60
 TACCTNTTGC CCAAAGAACA TNCTCAGTAT TTGGGGCATT TCCTN 105

SEQ ID NO:5610

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06669

SEQUENCE DESCRIPTION:

GATCCCAGTG TCTGAGTGAA CTAACAGTCC TGCTTTCAGC CACCATTGTG ACAAGACACC 60
 CAGCACTGAA AGTCCCGCTG CCAGGAGCAA GGGATTCTTT GGAAGCACCC GCCCTTTGTG 120
 CCTTGTTGGG GGAAACCGGT GACGCAGTAG TGAGTGTGGA TACACCAGAG TTTGCATTGG 180
 AAGGAATGAG TGTCACGTGG GGAGGGAAGG GGCCAGTGGA CCTTTGTAA GCTTCCACT 240
 CAATAAATG AACCTGTATG GCAAA 265

SEQ ID NO:5611

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06670

SEQUENCE DESCRIPTION:

GATCCATGTT GAACAATACA TGTAGTTCT TTTCCACGC AATGTAAGAN CATGATATAC 60
 TGTACGTTGG AAAGCATTTA CCTTATTTAT ATACCTGAAT GTTCCTACTA CACAAATAAA 120
 CATATATTAA ATTCTAAA 138

SEQ ID NO:5612

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06672

SEQUENCE DESCRIPTION:

GATCTGTGAT GCCCCACCGC CACCCTACT CCCTCAACC CTCCTCTTT CTGCCCATT 60
 CCTCCCACCC CCTCACTCCC ATTCCTAGC AAAATCAGAA GATTGTGAAG AGGCCGGCTT 120
 CAACAAAATN GGATAAANAN ATAATTTTTT AAAACTTAAA 160

SEQ ID NO:5613

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06673

SEQUENCE DESCRIPTION:

GATCCTATGT NCTGCTTGCA CAGAGGCCTT TGGATTTTAA CCCAGGAGNT TCGNGAGNTG 60
 AGAGCTGCCC TGTCTTNAT TGAGCCTTAG CATTTCCCTC TCAGGCTTCC TCTCAAGCTC 120
 AAGGAACTCA CCCCAGATA AGAAGCTGGT GCCTCTTGTG TCTCTNATT CAGAAACGGA 180
 CTTTCTNATC ATGCTTTCCT ATGTTGGGTA TGNGNNN 217

SEQ ID NO:5614

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06674

SEQUENCE DESCRIPTION:

GATCCAGAA TTCAACCTGT ATTTATAGAT GGATAATGTA NTTAGCTAAT TTTTGGTTTA 60

AATGANCTTN TTGGGTTAGC TTNCGTAAAT GNTATAATTT TTACTGTTN

109

SEQ ID NO:5615

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06675

SEQUENCE DESCRIPTION:

GATCCCCAGC TGGACTCCCC ACCCCCTGGC TTCCCCACCT CTCCAGGNGT CAAAGGTGAA 60
CCGAGTCCAG TATTAGCTGA ATGTCATTTT GTACACCACA GCTCAGTCAG CCCATGGGCT 120
TCGTGAACTT TGCTCCAACA CACTGATGTG TGGGCTTCCC ACAGCAGGAC TGACTTCCCC 180
CTTTCTGTTG TTTGCACATN CCCCTCTTAC TGTACTGTCA ATAGATATTT TTGAGATTTA 240
TTTTTAAATA AATATTCAAC TTGCAAA 267

SEQ ID NO:5616

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06676

SEQUENCE DESCRIPTION:

GATCAATAAT ATATAAAATN TGAGTGTGGG TTTGTATCTA ATAAAGTATG CCAACACCAA 60
A 61

SEQ ID NO:5617

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06677

SEQUENCE DESCRIPTION:

GATCTTGAGG CCCAACATGC TTGACTCTGC CAAAAGTCT CCTTCCTCAG CAGGATGCAG 60
CCTATTACAC TCAGCACAGN ATCTGGCACT CTTAGGTTCC CGGTCCATTT CAAACCTCCT 120
GCAACCAACA AAAGGATAGT TCCTTAATAA TTTGTCAAGC CTACCTAGGG CACTGCTAGT 180
AGTCTTACCA TTATTCACAA ATAGGGCTGA AACATCTAAA ATTACCCAC TTAGTATTTT 240
ATATCCCTTC AACGTTCTAT CCTAAAGCTA ATGTTTCTTA GTGCTAATTA NAATCGTCAG 300
TCTATTGACA NTNTGACAAA GGGTAAGAAA 330

SEQ ID NO:5618

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06678

SEQUENCE DESCRIPTION:

GATCCCAGGN TTCTGCGGAC CGACGATACG TTAAATGTT GTTCTAGTAA ATATTCTTGA 60
ATGTATTAAT ATGGCTGAAA CAAA 84

SEQ ID NO:5619

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06679

SEQUENCE DESCRIPTION:

GATCGTGTTC TNTAGATGAA ACCATCAAGA ACCCCCGCTC GACTGTGGAT GCTCCCACAG 60
 CAGCAGGCCG GGGCCGTGGT CGTGGCCGEC CCCACTGAGA GGCACCCAC CCATCACATG 120
 GCTGGCTGGC TGCTGGGTGC ACTTACCCTC CTTGGCTTGG TTAATTCAAT TTACAAGGAA 180
 GGGGTAGTAA TTGGCCCACT CTNTTCTTAC TGGAGGCTAT TAAATAAAA TGTAAGACTT 240
 CAAA 244

SEQ ID NO:5620

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06680

SEQUENCE DESCRIPTION:

GATCTTCATT AGTCAAGNTT TAGTTATTN GTTGGCTTTT CCATGTAGAT TTCCAAGTGA 60
 CATTAACTA CTTNATTAA AGAAAATTG GAGACTGTTN NN 102

SEQ ID NO:5621

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06681

SEQUENCE DESCRIPTION:

GATCGGGCCC CATGTCTGTG CTGTCTAGTT TGTGTTCAAA ATGTCAGAAT AAACACAGAA 60
 TAAATGTAA A 71

SEQ ID NO:5622

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06682

SEQUENCE DESCRIPTION:

GATCTTTTAA AAAAGTTAAA GGACATCCTA GAGCCTTAAT AGTTAAGAAG NGTTAAATTA 60
 TCAAGCCTAT TTGTGCATTT CCTTTNTTG AAAAAGGTAA GTTGCTGATT AAGTCTAATT 120
 GGAATTGATA ATTCCATAGT CTTAGATTAN NNTGAGGATA TTTCCTCCTA GATTTCCTCA 180
 TGTNATGCCA TGCATTATA TATCTNACCA TTAATTTTAC ACTAAGGATG CTTCAACATA 240
 TAATAANNNG TGCANGNTGG AAGCAANN 269

SEQ ID NO:5623

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06683

SEQUENCE DESCRIPTION:

```
GATCTCCTTT TCCAGTGCTG CACACTCCTG GTTTGGAAGT TTAATGGCGT TGCAACGGAA 60
TCCTATATNC AGTTTCCTGT AATTTAATTG AAGAAAAATG CATCCAAATN AAGACTTTAT 120
TATTAACNGA CCAGATNGCA TCAGAAATCA TGTGTCTGTT ATNATTATCA GAATATGTCT 180
TAACTTTTNN GGGCAAAGTT AACACTGAAA GTTCTAGCTT AAGTGTGAN ACTTTTGTGG 240
GGNAAAAAAN TCACCTTTGA AACTCAGACT TCAGNGTATA CCCANTAATT TAANGTTCNT 300
GTGAAATGGT TTAATGTGT NGGACTCGTA ATGACTGTTT TANTGGTTCC AGTTTCTNCA 360
GNGTGGGTAN TTGGN 375
```

SEQ ID NO:5624

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06684

SEQUENCE DESCRIPTION:

```
GATCTGATAA CTTGAATTCA GAATATTAAG AAAATGAAGT AACTNATTTT CAAA 54
```

SEQ ID NO:5625

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06685

SEQUENCE DESCRIPTION:

```
GATCTGTTTT TATAAAGTGC TCCATGATTC TCTGAAAACA GTATACTATG TATCTAATTT 60
TTGGATACAG GATGGACATA CGTACTCAAA CTGTGTTTTT CAATTTGTAC TGTATTTGTT 120
TCTCTCGACC TGACTTAGTG ATAGAGGTAT ATTAAAGTNT TCCACTAGCA TGGTAGATTA 180
AA 182
```

SEQ ID NO:5626

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06686

SEQUENCE DESCRIPTION:

```
GATCCTATGG NTTTTCCCGG CTGGTTGCCA CTAAGTGTACA ACATTCAGTG CCCACATCCA 60
TCTNTGCCAT TAAGCTTTTT TGAGACATGA GAGATGCCTC TNCCTGCTG TATGACATGC 120
ATTTGGGAAG TTGGAAGAA ATGACAAANT CAGGGAGAAA ACATCCAAGC TTCTTACCTG 180
TAGATAGANT CAGCCCTCAN TTGGTGCTTA TNACCAGTTA TTCANGAACA ATAACANCA 240
CAAAATTAGT AGACATCCAA GAGGCACATA TTAGGGCCAA AGATAGCATC ANCTGTNTTT 300
GAGGGANCTG TAGTTTTGCG CATTTTNTAT NCATTTTAT AAAGGTACTG TNATTNTTTC 360
ATTGANN 367
```

SEQ ID NO:5627

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06687

SEQUENCE DESCRIPTION:

```
GATCTAGTTT GACTTTCTAG TTAGTGGTGT TTTGAAGAGG GTATTTTATT GTTTTTTAAA 60
AAAAGGTTCT TAAACATTAT TTGAAATAGT TAATATAAAT NCATAATTNC NTTTCCCCTG 120
TTTATTGTAA TGTATTCTAA ATTAATGCAG AACCATATGG AAAATTTTCAT TAAAATCTAT 180
CCCCAAATGT NCTTTCTGTA TCCTNCCTTC TACCTATNAT CCTGATTTTC AAAAATGCAG 240
TTAATGTACC ATTTNANNTG CTTGATGAAG GGAGCTCTAT TGCCNTTANC AGNAATTGTN 300
GCTAAGGTAA TTCCNAATAG AAAGCTGCTT ATNNNN 336
```

SEQ ID NO:5628

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06688

SEQUENCE DESCRIPTION:

```
GATCTTCTTG ACCTTCTCCA TCATCGCCAT CCTTTCCCAA AGGCCAAGGA AGTGACCTGC 60
CTGCTGGCAT TGGCCAGACC ACAGCAGCAC CTCCTCCATG CAGGCCTTAA CTTTCCCATG 120
GTCAATGCAG TTTTATCAG CCTTGCTTGG GATAGGACCT CCAAGGACTA AGGCCTCCAG 180
CCCCATGTNT GACCCTTGTN ATCTCTCTGC CCCACATAAT TCTGTACTT TGCTATGTGC 240
TCCTAATGTA TCTAGTGTGT CCTGTGACAA CACTCATCAN ACTTCAGTGN AAATCACTTG 300
GTTTTAATTG ACTGTNTTNT CCTATAGACT GTAAGGNTCC ATGAGGGCAG GGCACATGTT 360
GGTN 364
```

SEQ ID NO:5629

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06689

SEQUENCE DESCRIPTION:

```
GATCCCGTGT GCCACCAGGA GGGAGTGCCA GCTATAGTCT GGCACCAAAG TCCAGGACAC 60
CCAGTGGGGT GGAGTCGGAG CCACTGGTCC TGCTGCTGGC TGCCTCTCTG CTCCACCTTG 120
TGACCCAGGG TGGGGACAGG GGCTGGCCCA GGGCTGCAAT GCAGCATGTT GCCCTGGCAC 180
CTGTGGCCAG TACTCGGGAC AGACTAAGGG CGCTTGTCCT ATCCTGGACT TTTCTCTCA 240
TGCTTTTGCT GCAGAACTGA AGAGACTAGG CGCTGGGGCT CAGTTTCCT CTTAAGCTAA 300
GACTGATGTC AGAGGCCCA TGGCGAGGCC CCTTTGGGCC ACTTACN 347
```

SEQ ID NO:5630

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06690

SEQUENCE DESCRIPTION:

GATCAAGGTG TGAATACTG AAGAAAATAA CTTGCTGGCT ATATAGGAAA ATGCTGTGGA 60
 AATGAACTGT GTATATACTT CTGGGAGGAA CAAATTTAAT CATTTCTCCT GTTAAGCACT 120
 AATCAGTATA GTGCAACTCC TGGTCTGTN CTGTATTTNA TATGCAACAT ATATGCTTTA 180
 ATATTTNNNT GTTGTNCAAT TAATATTTNC AATTGTGTTA ACCACTTTGC TGCTAAGATT 240
 TTNCCGTCCC ATTCCCATTT NTCCCTTTAC AATNNTAAAC ANGTTTCTTC ATTAAANNCT 300
 ATGGTGATGA AAAANAAN 318

SEQ ID NO:5631

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06691

SEQUENCE DESCRIPTION:

GATCTGTGGG TGTTTTTAAA AAAACTCAAC CTATCTGGTG TTTTATTTTA ATGGATAAAA 60
 ATGTAATTTT CCTAAGGTAG CAACTTATTT CCAAATTAAT ATAGATGANA AATAGATNCC 120
 ANTTNGACTA AATTGAAAGC TTTTNTCCT ATATTTNCAAT AGCCTTTGAG AATATTGNTN 180
 AGTGN 185

SEQ ID NO:5632

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06692

SEQUENCE DESCRIPTION:

GATCAATAA ACTCANTTTT TTATGGTTAC TGTA AAAAGA CTGTNTAAGN CAGCTCAGCA 60
 CCATGCTTCT NGTAAAAGCA GCTTCANTTA TCCACTGGGG TTATCTTTTG ACAACTTGCC 120
 ATTATCTGNN 130

SEQ ID NO:5633

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06693

SEQUENCE DESCRIPTION:

GATCTTAACA AGCTTAAAAA AGAATTTTAT GACCAGAATC CAACAAGAGC TCTATTTTGG 60
 AATTGTGCC AAGTTGGTGA TGTTTACTCT AAAATTAATA ATAAAACTAC TTGTAAGCAC 120
 AAA 123

SEQ ID NO:5634

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06694

SEQUENCE DESCRIPTION:

GATCTGAACT GCCTCTCCT TTCTCTGGCC TCTNCCCCCT TCCCTCTTCT CTTCAAGCTAG 60

GCTAGCTGGT TTGGAGTAGA ATGGCAACTA ATTCTAATTT TAATTTATTA AATATTTGGG 120
 GTTTTGGTTT TAAAGCCAGA ATTACGGCTA GCACCTAGCA TTTCAGCAGA GGGACCATT 180
 TAGACCAAAA TGTACTGTTA ATGGGTTTTT TTTTAAATT AAAAGATTAA ATAAA 235

SEQ ID NO:5635

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06696

SEQUENCE DESCRIPTION:

GATCACGCTA CTGCACTCCA GTCTGGGCAA CAGAGCAAAA TCCTATCTCA AAAAATATAT 60
 ATATATTATC CAGCCCCAAA TGTTTATGGG GTTGTATTG ATGAACCCTG CATTAAACAA 120
 TCCCACAGTC GGTGCTGCGG TGAGCCGTGA TGGGTACCAC TNCATTCCAG CCTGGGTGAC 180
 AGANTGAGAC CCTGTCTNNA AAAAAAANGT NNAANTTGT TTCCCNATAT TTTGGNNGGA 240
 TTNGTGGGGN 250

SEQ ID NO:5636

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06697

SEQUENCE DESCRIPTION:

GATCTTGTGT ATTTTGTCC ATATCCAATG TTATATGAAC TAATTGTATT GTTTTATACT 60
 GTGACCACAA ATATTATGCA ATGCACCATT TGTTTTTAT TTCATTAAAG GAAGTTTAAT 120
 TTAAATTGAA A 131

SEQ ID NO:5637

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06698

SEQUENCE DESCRIPTION:

GATCTTAATG GGCAGGGTTA AGAAAGTTAT TAAAATAAA GTTACCTATT CTAATAA 58

SEQ ID NO:5638

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06699

SEQUENCE DESCRIPTION:

GATCAGAGTG ATGTGTTATG CAGAGAATTA AAGGGTGATG TGATAAAGTG ATTGGGTCGT 60
 GCTTTATGTT GGCAAAAAA ATCTGGAGTA TAAGAAGTTG CTGACTGGG TGATTTGGAA 120
 GAGATTGGGA GACTGGGGG ATTCAGANCT GAAGGANCAG GCTATAGGCT GTAAGGCAAA 180
 ANTATACTTG CNATGTTCAA ATTACTNAGA GGNTTNTACC NNCNTGCTTT TCTTTAAAN 240
 ATAAACNTTN 250

SEQ ID NO:5639

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06700

SEQUENCE DESCRIPTION:

```
GATCTTGTTA TTGATTAACC ATTTCTTAT GCCTTGCTAT TGACATATTC ATGCTCTTTC 60
TACGTCTAGT GGCTGAAAAT NTTTGCATTT GTTCATTTGA CTAATGGTGT GATTTTNGTT 120
TCTATATTAT NAGACCTGTA ATGTTTAAA ATGTATTNA TTAAATTTGG ACTGGATGTA 180
TGTCTCTAGC AATACGAGGT ACTTTCTAAA CTATTAAGGG AGGGGTTGTA TCCTCATGTT 240
GAGATAAGAT GATGGTCGTT TAANTTTNGC AATTTTTTTT GGCCTGCAGG GATATTTTGT 300
GTTTATGTGT CCAAAANNGG ANTAANTTGG CATTCTTGTG CCAAANGTTG TTNN 354
```

SEQ ID NO:5640

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06701

SEQUENCE DESCRIPTION:

```
GATCTGCATT CTGTAAAAGA GGTACTTTC CATGATGTAG GCATGAAGTG GTGCCAGTAA 60
GCGTAGAGCG GAAATNTTGA CTTTAGTTAA CATTGGGTNT AGCATTTCCTA GTGCAGCATT 120
ATCAGTGGGC CTTTAAAAAT ACTTCGTAAG TACATTAGCT TTCACTTTGT NGTNAAATTA 180
TAGCAGACTC ATTATAGAGA ACAAGTTTGC CTTGATTTNN TTTAAATGA CTTCTGCTAA 240
GCACCCAGAA GATAAANTTG ACATATTTTT NTAAATNTAAG CATACTTTT TNGTACATNG 300
TGTNCATTCT TGANTAANAT GNGGTTCTGT GTTGGCTTGT NN 342
```

SEQ ID NO:5641

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06702

SEQUENCE DESCRIPTION:

```
GATCCAGTAT AATTNCAGAT TCTNGTGTCC CATCGAAGTT TCTAGCAAGA GGACTGTTGT 60
CACATTTCTT TCTTGACTC ATTACTGGTC ACTGAAAACC AGAAGAAGTT GGTGAACCAT 120
CTAAGAAGA GAAGGCTGTG GNCAAGTATC TNCGATTCAA CTNTCCAACA AAGTCCACCA 180
ATATGATGGG GTCACCGGNT TGATTATTTT TTTGCTTCAA AAGCAGTGGN CTGTNTTTNG 240
GGATTCAAAG NGGGNAAAGT CCANGTANTG GN 272
```

SEQ ID NO:5642

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06703

SEQUENCE DESCRIPTION:

GATCGCAATG AATTTNTAAA ATTACTATTT AANATATTGT TGAGATTCCA TTACCTCCAA 60
 TCAGTCTTGG GACATTAGAA CAGTGGTATA ATTAAGACTG TATGTTTAAA TTGAGAAATT 120
 TTGCACAACT TTAACAAGTA GCAGANCTAA TTGTNCACTG ATGGCTTTAA AGATGAAATA 180
 NTTCTGTGAA TNCATGANAC TGTGAGGGNC TCTNCGTGGT TGTCTAGGTT TATTTATATG 240
 CATNCTCATT AATNAAAGTN NTTN 264

SEQ ID NO:5643

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06704

SEQUENCE DESCRIPTION:

GATCTTTTT ATTTTATAC ACATGACAAG ATTTTACATC AAGAATAGTC AGTTAAATAG 60
 TACAAATTTA CATTATGAG GAATGTAAA AAAAATTCAA CTAAAAACC CACTTTTTCC 120
 TGTGACCCAT AATCCACAT TTTACAGTGC AGGGGAGAAG GGGATTAGGG GGCATNCAAA 180
 ACAAGTCTCT CCCAAAAAGA AAAATGCAGG CATGCAGGGN CGGCGTAATC ANTNCCNGN 240
 NNNNNNN 247

SEQ ID NO:5644

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06705

SEQUENCE DESCRIPTION:

GATCCATACA GGTTGTGTGT CATCTGTCCT CTTGAGGTTT AGGAGATTCT AAATTGAATA 60
 TTCCACGGTT TGGGACAGCA TNCGGAAGTT TTCCCTATNA CTTTATATTT TGTATTATGT 120
 CAAATGTTAT GGCAGGGCCC AAATAGCATA GCCACAAGTT TGGTTTATGT GGCATAAAA 180
 TTCTAACCAA ACCCCAGACA TAGGGAGTCA TTTGGAGAAA GCCTGTATGT GGTGTTTTAA 240
 CCTAATAAAG TTGATGAGAG AGAAGGGGAG AGGAAGCGAA CATAAAGCGG GTCAAGTGTA 300
 GTGCATCTTT TGTATTGN 318

SEQ ID NO:5645

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06706

SEQUENCE DESCRIPTION:

GATCTTTTGA CATACTCACT TTGAGTGGCA TATGCCCAGG AAAATATTTA AAAGAAAGAA 60
 AAGCTATTTT TACAAAGTTT TCTAGCAGTT CCACTCAGAT AACTTTAAGG GGGAAAAAAG 120
 CCCAACGNNT GGNATGGTT AAGTAAATTT NGGTGTATTG CTAGTGCTAT CNCNGANTGT 180
 GTATGATGGC CNTNCAN 197

SEQ ID NO:5646

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06707

SEQUENCE DESCRIPTION:

GATCCCCGA ATAACCTTTT TCAATCAAGT TGAAAAACCA AACAGCTATG TAAAGTCCCC 60
 AGGAGAGCTC TTTTCCCTT ATNTNCTCAT TTNTTTGTT ATAACTGTT TAAATAGTTC 120
 AAATGGTTGT NCATGCCTAG GGGATGAAAC CTATGTAATA GAAATGTACT GTTTATGAA 180
 TAAGGAGTAA AATTNTTTA AAAAATTAAA 210

SEQ ID NO:5647

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06709

SEQUENCE DESCRIPTION:

GATCTGAAAC AGAAACCACC CTCCGGAACC GCCCAAGAAA GGNCTGCTCC ANANACTCTT 60
 CAAGCGGCAG CATCAGAACA ATTCCAAGAG TTCGCCAGC TCCAAGACCA GTTTAACCA 120
 CCACATAAAC TCAAACCATG TCAGCTCGAA CTCCACCGGA AGCAGCTAGT TTCGGCTCTG 180
 GCCTCCAAGT CCACAGTGGA ACCAGCCAG ACCCTTCTCC TTAGAAGTGG AAGTAGTGGA 240
 GCCCCTGCTC TGGTGGGGCT GCCAGGGGAG ACCCCGGGAG CCGGGGAAGG AAGGCCGTCC 300
 ATCCCGTCGA CGTAGAACCT CGNGGTTTTT TCAAAGNAAT TTCCACTNNG GTCTGTTTTT 360
 NCGAGGGGGG NN 372

SEQ ID NO:5648

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06710

SEQUENCE DESCRIPTION:

GATCCTTGGT ACCCTAAAA AGATTGCCAA TTTTTCAT CTTTGCCATA TGGAGGACTG 60
 TGACAGACTT TGGACAGTGG CCTCTTGAGT TCCTCTGCAG TTTTGACATT TAGGATTTTG 120
 TGTCTTTTAA ACTGGAAAAT CTTCTAGCAT GTTGGGTTGT TACAGAGTAT ATTTTGTCT 180
 GCAGCTGTTT GTTGCCCAT TCCTAAGAGG AGTTTATCCA TCCNGAAA 228

SEQ ID NO:5649

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06711

SEQUENCE DESCRIPTION:

GATCAAAACA AGATTTTCCC AGTAAGAATA TACTGGGACA TAACAAATGA AAATATTTAT 60
 ACCAAAATAC CAAAAGTNAT TCACCTCTTT AAAATATCCT ACTATAGTCT AATTAGTAGC 120
 TTGTNCAAGA CCAAGTAACC ATTTTNNCT GCNCTTTTGA NTGATGATTA GAAATTCAAA 180
 CAANGTATTT NNN 193

SEQ ID NO:5650

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06712

SEQUENCE DESCRIPTION:

GATCCAAGTG CGGAANTCAC AGAAGGAACG GATTACAATT CTCCTNCAGN TAGGGAACCC 60
CTAAGNCCAC AGAAGATAAG GAGGAAACAA TACAGAACT AGAGACCCTG GAGAAGAAGG 120
AAGAAGAAGT AACTTCAGAG GAGGATGAGG AGAAAGAAGA AGAAGNAGAG ANGNNN 176

SEQ ID NO:5651

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06713

SEQUENCE DESCRIPTION:

GATCAAGTTT TAAAAATTGT NCTNTTATTG TTTTAAATTA AGAACTTTTT GAACTAAAC 60
CAGAACTCT GCCATAGTTC ATTGATTTTA ACATGAAACA TTTATTTACA AGATGATATC 120
AAGATTACTT TTCACAAAAT AGGCACATTA TATCANCAT TGCNCTGCT TTGTAAATTT 180
NCCATCCAGG ATTTTGGGGT GGTATTCATG TGAAATTAAA GCAGATTCTC TAGCAGTTTC 240
CTATAGCTAC AGTTTNNNN NTNCCCTGG NTN 273

SEQ ID NO:5652

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06714

SEQUENCE DESCRIPTION:

GATCCTGTGT GGAGAGGGAA TGTGAAATTA ACATCATTTT TTTTGGGAG AGACTTGTTT 60
TGGATGCCCC CTAATCCCCT TCTCCCCTGC ACTGTAAAAT GTGGGATTAT GGGTCACAGG 120
AAAAAGTGGG TTTTAAAGTT GAATTTTTTT TAACATTCCT CATGAATGTA AATTGTNCT 180
ATTTAACTGA CTATNCTTGA TGTAAAANCT TGTCATGTGT ATAAAAATAA A 231

SEQ ID NO:5653

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06715

SEQUENCE DESCRIPTION:

GATCAACATG GTGGAACAAA ATGATAAAGA NCAGAAAACA TTTCAATATA TTACTAATAA 60
CTTTTCCAA TATAATCCT AAAATTCCTA TAACATAGTA TTTTACAGTT TTATGAAGCT 120
TTCTATTGTG ACTTTTATGG AATTAAGAGA TGAAGAAGAT GAGATATTTT AGCATTTATA 180
TTTTTCAAAA TTATATGTAT ACTTAANANT AANGTANCT TATGCAAA 228

SEQ ID NO:5654

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06716

SEQUENCE DESCRIPTION:

GATCACAAC GTGAAAAAAA ACTGCACACG CAAAAGACTA CAGGGAAATA TGTAATTNAT 60
TATNTTGT TT TCTCTCAGTG ATAAGATGGG GTGGTTTCTT CTTTGTACTT TTGTATTAAT 120
TTCTTACGGT GTTTGTATTA CTTTATAAT CAAGAAC TTTTAAAA ATAAATCAGA 180
AA 182

SEQ ID NO:5655

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06717

SEQUENCE DESCRIPTION:

GATCGTAGCT AGTTTGTATT GTCTTGTC AA TTGTACAGAC TTTTAAAA AAACAACCAC 60
CAGTGAAATG TGTGTGTATA CAATAAACTG AAA 93

SEQ ID NO:5656

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06718

SEQUENCE DESCRIPTION:

GATCAACATT TATGACCTAA GTCAGGTAAT ATACCTGGTT TACTTCITTA GCATTTTNAT 60
GCAGACAGTC TGTATGCAC TGTGGTTTCA GATGTGCAAT AATTGTACA ATGGTTTATT 120
CCCAAGTATG CCTAAGCAG AACAAATGTG TTTNCTATA TAGTTCCTG CCTAATAAA 180
TATGTAATAT AAATTTAAGC AAACGTCTAT TTTGTATATT TGTAAGTAC AAAGTAAAT 240
GANCATTTTG TGGAGTTTGT ATTTNGCATA CTCAAGGTGA GANTTAAGTN TTANNTAAAC 300
CTATAATATT TNNNCTGANA CNCNNGNACC N 331

SEQ ID NO:5657

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06719

SEQUENCE DESCRIPTION:

GATCAAGCCA AAAAATCCAC CAGGAANTCC TACTGACTCT CTTNTAAAA TATAGTCATT 60
TAACNGTCAA AAGAGTCCCC AATAATGTCA GTNCTAAGAT TNCCCCTATT TTTAAAAAA 120
ACAAAGTAAA TGAAGACTCA AAGAGCAAGT AACTAGTCTA AATTAGATAG TCACAGGTGG 180
TAAAGCCAGA AATCTGTCTG GNCAGTCTAA CTCTATACAN CCCAGGCTTT TAANTATTAG 240
AAAGCNNNNN 250

SEQ ID NO:5658

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06720

SEQUENCE DESCRIPTION:

```
GATCTCAGTA TCATACTGAG ACACCTCCCC TGAGCCTTAC CTACTTAAAT TGGTAACCGT 60
CCTACCAAAA TTTGTCAATT TNAATCAAGT GAGGCAAGTT GCAAGGGAGC CAGAGATACG 120
TGAAAAAGA AAAGCAGAAA TACTGATACT TTCTAAGAAA GAAGTTGTAA TAATTNCTTT 180
GGCACATTGA CTTACTGATA TCTTTTGAAA TGCATAGATG ACTCTTGTGA ACCAANGAGA 240
GCAGTNGTGG TTNTTCCCCG GCGCAATAAA AATGCCTTTG TGTATCACTT GCGGTTGCCA 300
GTCATTTCTG GTGCCAGTTG CTTTNTNNTN CCAGAGGTTT GGCCTTNATT CTTCCGAAAN 360
NAGGGTGATG ATTNTTNGAA GNTGGGGTTT TCCTNACCAN ATTATTNTN 409
```

SEQ ID NO:5659

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06721

SEQUENCE DESCRIPTION:

```
GATCTGGAAG AGTCAAGAGA AGAGAGCAGA AAGCAGGCTC TTGCTGCTAA AAGAAA 56
```

SEQ ID NO:5660

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06724

SEQUENCE DESCRIPTION:

```
GATCTAAAGA TGATGGAAAA CATCAGCTAC ATTAAATACT CATAAGCAAA ATAAAGGCTG 60
GCCTGTAAA 69
```

SEQ ID NO:5661

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06725

SEQUENCE DESCRIPTION:

```
GATCCAAAGG GAAGGGACTA TGCAAGGGCA TTTATAAACG NTGGACAAGG GTTCATTATA 60
GAACACCANT GTNATGGACT ATCCCAAGCA TGTACCACTG TGTCTCATGC ATGGTAAAGG 120
TCCCATAAAT GTTATTGCTC TCTTGCAGTA TAGTAGTAAT AGTAGTGGTA GCTGNTTTAG 180
GAGTAAAAAC AGCNAAAAAAN AGANNNNN 208
```

SEQ ID NO:5662

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06726

SEQUENCE DESCRIPTION:

GATCTGAAAA AAAAGTTTCA CCGTTTGTTC TCTTACCTCA TTTTAAGAAG CATGTGAAAA 60
 TGGGATACTA TAGACTACTG AGAATTTTCAG AAATTGAGAA CAATTTTATA ATAAAACGGC 120
 TATATTTGAA GAGAGANTAC ATTTTATATA ANCAGGAAAA TACATTTGAC ACTTTATGGA 180
 ATTTNATGAG ACTTTTGTG GGAACAGAAG GTCTTCAAAT TGTAAAATGT AAAGNTTGCN 240
 CTNTTTNTTA NGTCTTTAAC AGGGGTGTNT TTCATTGTNT GTTTGGGTA TGGCTTTGGN 300
 ATAANTCATT NTATATNTNA NTTGAN 326

SEQ ID NO:5663

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06727

SEQUENCE DESCRIPTION:

GATCTGCACA GTTTGGTTTT TGCACAAAAG TCATTAAAAA AAATCTGAGT AATTGTCAAA 60
 TATTAAGAAG AAGNTATTCT TCCTGGTAAG GAATACAGTT TTNAGTCAAA GTGGCCATTA 120
 CATCCNCTTT TNAATTTACA TAATACAGNT ACTTGTGAAA GTTGTGTGG TGTGTATGC 180
 CAAGNNAATN CTTTTTATT GGTGCCTATA TTGTCACANT TNTNTN 227

SEQ ID NO:5664

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06728

SEQUENCE DESCRIPTION:

GATCCACCCT CCTCGGCCTC CCAAAGTGCT GAGGATTACA GGCATGAGCC ACCACAGCTG 60
 GCCCCCTTCT NTTTTATGNT TGGTTTTTNA GAAGGAATGA AGTNGGAACC AAATNAGGTA 120
 ATTTTGGGTA ATCTGTCTCT AAAATNTTAG CTAAAAACAA AGCTCTATGT AAAGTAATAA 180
 AGTATANTTN CCATATAAAT TTCAAAATTC AACTGGCTTT TATGCAAAGA AACAGGTTAG 240
 GGACATCTAG GTTCCAATTC ATTCACATTC TTTGGTTCCN GGTAAAATCN GGNGGNNTAT 300
 ANCAATTCT ANTGGGGTT TNCN 324

SEQ ID NO:5665

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06730

SEQUENCE DESCRIPTION:

GATCCTTCCA CCTTGGCCTC CCAAAGCATT GGGATTACAG GCGAGAGCAC TTGGTTGGCT 60
 AAAATATTTA TATTACCTG NCATNATTTG TTGATTTGGG GGCTAGGGAG TTCTTAAAC 120
 AACAATAAAA AATCTTCTGT GGCTGCAAA 149

SEQ ID NO:5666

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06731

SEQUENCE DESCRIPTION:

GATCACAGTC TTGAGGTCCT CTAGCAGGGG TGAGGGAGAG CAGCGACTTC AGCTGAGTCC 60
 CTGCCAGTGG TTAAGCAAAC AATGGTTTCA AAATTCAAGG TCCCCAAATG GCAGCATTTT 120
 ATGTTCTGAC CTGTTTGTGT TATATAGTGG TGTTTTNNNN CCNCTTTGGA NCTCTTGNGT 180
 TGTTAATAAA ATGAAATGAT TACTTTTNA TAAANTGAA AAANGTAAAA AANAAN 236

SEQ ID NO:5667

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06732

SEQUENCE DESCRIPTION:

GATCGCGCCA CTGCACTCCA ACCTGGGTGA CAGACTCTGT CTCCAGAACA AAACAAACAA 60
 AAAAAAGAT TTTATTAAAG ATATTTTGT AACTCAGTAA A 101

SEQ ID NO:5668

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06733

SEQUENCE DESCRIPTION:

GATCCATGGA CCATCTGGGT CATGGCGCCT GGTTCAGAC AACCTGAATC AAATCTTAGG 60
 GGTGGGGCTT TGGGATGTCA TTGTTCAATA GGCACCTCAG GAGATTCTGA GCACACCNNT 120
 GTTTGAGAAC CACTAAATN AGGAGTGGGA AAAAAAAT AGGTGTTTG TTAATTTAGA 180
 GCTGAGCTGN GANGNTAATA TATTTNNTT GTCANTGCCA TTACCAGNTA TGCACTGNNT 240
 CTTTATACC TACANTTN 259

SEQ ID NO:5669

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06734

SEQUENCE DESCRIPTION:

GATCCTGAAG CTTACTATGC AGCCTACAAA CAGCCTTAGT AATTAAAACA TTTTATACCA 60
 ATAAAATTTT CAAATATTGC TAACTAATGT AGCATTAACT AACGATTGGA AACTACATNN 120
 ACAACTTCAA AGCTGTTTTA TACATAGAAA TCAATTACAG CTTAATTGA AAATAAAC 180
 CATTTTGATA ATGCAACANT AAAGCATCTT CAGCCAAA 218

SEQ ID NO:5670

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06735

SEQUENCE DESCRIPTION:

GATCAGATTG AGTTATGCA TTTTGGCAA GAAAACCACG GCAATGATAT GCCCGTCTCG 60
 GTGCATTNA TCAGGAGATA CTTGATGTCG ATGTGTCATA TTACTGGTGA TGTAAACCTT 120
 GGTAAAGTT AGTAGCTTC AGGTTTCTCC ATTGTAAAGT TGCTATTACT TCTTAATATA 180
 ATAGGCTAGG TTGTACTGCT ATAACAAATA TACCTTAGTA AA 222

SEQ ID NO:5671

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06736

SEQUENCE DESCRIPTION:

GATCCTTGAA TGAAGAGGAA CCCTCACCAT GGGGCTTACT GTTATAATGT TTCTTCATTT 60
 ACTGTTATTA AAAGATTAT GAGAAA 86

SEQ ID NO:5672

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06737

SEQUENCE DESCRIPTION:

GATCAGAAGC TGCCAGGAAC AAGGAGAAGA CGCTCCCCTT CCTCACCTTC CCACCCCCAC 60
 ATGGCTTCTC ANTCGGGGAA AAGATACAAC TTAAC TTAA ACCAAGTNTT AAGTTTGTAT 120
 TATNACATGG GATTAGATGC ACCAAAAACA ATTTCAAGTG ACTGTGGGGC ATTCTATTGC 180
 CTGAGAAATGT TCAAGAGTCC TGATATGACC TGTTGTTNTT ATCCTAAACA GTGAAAAATT 240
 CATCCACCAA ATATATAGGA ATAGAGGGTG ACAGNAAGAT GCTTTCTGAA AGGTATCCNA 300
 TATTTGGGGG TTTTGGGTTA CATATNNCTN ATGTNGGNTT TTAANCTATA GCTCTTCANT 360
 TANNNTTACT CNATCCATTN CTTGAAAGGA N 391

SEQ ID NO:5673

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06739

SEQUENCE DESCRIPTION:

GATCCTNTGT ACATGAAATG AAAGGTGCAT CANCTTGGGG GCTGGGAAAC CTGCAGTATG 60
 GNTTTACTNC GTCCCTATCA CTGGTGTGGC TGTTGGGCAA CCAC TTATTG CCTGACCTAC 120
 CTCACAGGGA TGTTGTGAGG GTTTGATGAG AGAATGAATG TTAATAGGAA TTGGAAAAATT 180
 CAAAGCATT AACAATGTA AACAGGTAAA 210

SEQ ID NO:5674

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06740

SEQUENCE DESCRIPTION:

GATCTCAAGA AAAAGCAGGA ATTAAATAAG ACAAGGNNCA GATTAAANATA CCTTTCCCAG 60
 CAGGGGAAAC AGCAAACTTA AAGGTTCTAA GGCACANGAG AGCATGGCAT ATATGACGAC 120
 CCAAAGAGT GGCCAGATAT CCAGACATCT AGAAGGTCTA GCTAAGTNCT TAGGAAGTAG 180
 TATAANCAGA NAAGANAAAN TTGTGGCCTC TTTTTTNAAA ANN 223

SEQ ID NO:5675

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06742

SEQUENCE DESCRIPTION:

GATCATGCAC TGTTGACCAC TGAGCAATCT GTGTNACACT AGAGTTCACA GGGCATTTTA 60
 AGTGTAGACG TGAGTCCTTA AACATATTTN GNTTCTCTC TCAGGTTTAA AATGTTTCAA 120
 ATGTAATNT TGCTCATCAG TGCAGTTATC AATGCAATTT NATATTCCTT GAGGGGAGAA 180
 AGNGGGGTCT TATTGTACAT GTCCAAGGGG GGTGATAAGA GTATTANCTG TTAAATTTAA 240
 TTGGANCAAN CCATTGTCTT AACGCAGCCA TGGTTTGANT TTGTCATCTT NGGGCTGACC 300
 GGTGCATGTA AATACAGTAT GCNCTTTGGA TGTAATCCTT NGAAATGNCA GTGTTGNATG 360
 GTAGGTTATC CTTNNGTNAA CCCTTNTCTC N 391

SEQ ID NO:5676

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06743

SEQUENCE DESCRIPTION:

GATCCCTATA ACTCAAATA ACTGTTTGT AAAAGAAAAT TTGTTTACTT ACCCATTAGT 60
 AAGTTCCTGC ATATTCATTA TAAGATGGCA AATCAAACTT TTCTAGGATG AAGACAGCTT 120
 ATNTTNAAGT TGTATAGTCT TAGTTGGTTT AGGGTCTCAA TTTAATTAA TAAAATNCTT 180
 GGTTTTAATT TGCTTGTCTT TTTGAATTCC NGTTTAAATA ATNTNNNAG NGNGCAAAGN 240
 GATGTTGAAG TTCAGATTAA NCTCTNCTGA N 271

SEQ ID NO:5677

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06744

SEQUENCE DESCRIPTION:

GATCCTGGAA GTAATCCGGG CACACTTACA TTTGTTGTCA ACAAGAACAA TCCTTTCATC 60
 TTCTTGGGCT TTCACATGAA CAGCCTTAAT AAAAACC GCC AGGACTCCCC AGAAAAGCAA 120
 ATGGTTCTTC ATCTTGACTT CACTTCTTCT GAAAACTGG AGCAAA 166

SEQ ID NO:5678

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06745

SEQUENCE DESCRIPTION:

```
GATCACAAAT TAATGTTGGG GAAAATAAAG ATTTAATATT TCTTTAAATA GAAAAAGAAT 60
TTGGTTTTCC TCGTTTAAGA GCAATGAGAA AATNATGGAA TGTGACTGT NTTGGCACA 120
CAGGACACGN ACCTTCATGG AAGTCCTTGC TCTGCGTGGC ATCTGTCAGC TTNACACCTT 180
TCATTCTTAT TCTTCACCTT TGCTGCTGAG CCTAGCTGTA CAAACTTNGC ACTTTCATT 240
GCTAATATAA ATTCAGTTTT ATTNTACCAT TTTAGAGACT ACTAATGGTT AANTGTAGAA 300
GGNGNGGGGT GNACATGTTT TTATGTNGNG TGTTTNAAG GATATGTTTT NTNACCCCNT 360
GTNATGGTGG CAGCTTTNTN TTTTNTN 386
```

SEQ ID NO:5679

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06746

SEQUENCE DESCRIPTION:

```
GATCCAGGAA GCGGCTGGAG ACATTCCTGA GCCTCCTGGT CCAAACCTG GCACCTGCAG 60
AGACGCATAC CTAGAGGAAC TCTAACCCCG GTGTACCTGT ATAACTGAA CTGTGAACT 120
GTTTCGGTTA TCTCTGTCTT TTGAGGATGG CTTGTCTCTG TTGCTGGTTA ACATTCACCT 180
TCCTCTTTTG AGGAGTATTT TTCCATTATG TATTCATAAT AATGTTAATT TCAATAAATG 240
ACATTCATGC AGCAATTAAT 260
```

SEQ ID NO:5680

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06747

SEQUENCE DESCRIPTION:

```
GATCAACATT CCAGGGTTGG TAATGTTGGA TGATGAAACA TTCATTTTTA CCTTGTGGAT 60
GCTAGTGCTG TAGAGTTCAC TGTGTACAC AGTCTGTTT CTATTTGTTA AGAAAAGNTA 120
CAGCATCATT GCATAATTCT TGATGGTAAT AAATTGAAT AATCAGATTT CTTACAAACC 180
AAA 183
```

SEQ ID NO:5681

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06749

SEQUENCE DESCRIPTION:

```
GATCTCACTA TAGAGGCATC ACTAATTGGG GAAAGACAGA CTAGGTAATA GTCAGATGTN 60
ATATAGTATG TTAAANCTAT AGGATGGCAG GTNCATGANT NTTGGTTGTA TTATCCTTTA 120
TNTN 124
```

SEQ ID NO:5682

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06750

SEQUENCE DESCRIPTION:

GATCTGAAGT TGCAGGTAA GCTTGTNTGG TCAACATTCC AGTGTGAAA AATAATTTAA 60
ACAACTTAT TCTCTTAATT CTTTGGCAA CAAAACTAT TAGTAATAGC TATTGGGAC 120
CAGACAAAAT CAGCTTTCAT CTATAATTCA TTGGGGATAA TGGGAGATT AGATAATGTA 180
TCNGATTTA AACCTACCAG TTTGTCCTAC CCCTTANGCG TTAAANATAA ANTATGCANC 240
AAATTTGGNG GNANGNNGTG TGNNGTTN 268

SEQ ID NO:5683

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06751

SEQUENCE DESCRIPTION:

GATCAATGCA AAAATTGTTA TATATGAACA TATAACTGGA GTCGTCAAAA AGCAAATTAA 60
GAAAGATTTG GACGTTAGAA GTTGTCATTT AAAGCAGCCT TCTAATAAAG TTNTTCAAA 120
GCTGAAA 127

SEQ ID NO:5684

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06752

SEQUENCE DESCRIPTION:

GATCTTTACA ATTACAGTGT AGTAGACAAT TCGGAATTAA TTTGAAACAC ATCACAACAT 60
AACTTGAGAA AATTTCCTAN TGTATATGTA GTGGTAATAA ATGTTTAAAG GCTGCAAGGA 120
TTGCATTATA AANNCTGTTT GTNGGCTTTC TAAGTCTTN ATNCTGTAT TGGGANTAAN 180
CAGATTTNAG AAAATGGATA TAAGCTGANA TGTATATTN N 221

SEQ ID NO:5685

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06753

SEQUENCE DESCRIPTION:

GATCATAAAT TTTTCTCAGT GTCCTTTTGG TGTGAACAC ATATATCTGA AACCTGTATT 60
TAACCAGATA TTTCTACTCA ACTGAATATA CAAGTGTAAG TTTGATTGGA AAATTGTATA 120
TTATAAATGA AAATACAATA ATCAAA 146

SEQ ID NO:5686

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06754

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGACCTC CCAAAGTGCT GGGATTACAG ATGTAAGCCA CCGTGCCTGG 60
CCAAAGTTTT CTAATACCTG TTTATAATCC CCTTCTTTGT CCTCAGGTAA CACTATCTAC 120
TACGTGTCTC TNCAGATTAG CTTGCATTTC CTAGAATCTA ACTTATATAA TTAATAAAT 180
ATAGTATATA CCCTTCTTTT GGCTTTCTTT ATTCAGCTAT GTGTGAGAT TCATTCATGT 240
TGTTTAGAGT ATCAGTTACT AAGTAGTATT CCATTTTNGG CTATATCAAA NNTNGTTGN 300
CCATTTACCT ATTAANGGGC ATTTNGCACT GGNTCCAGNN TGAN 344

SEQ ID NO:5687

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06755

SEQUENCE DESCRIPTION:

GATCTCTGTT TTGACTAAAC TAGAGGAAAA ATNATTGGAT GTGTTTATTC TTTTCTAAGC 60
AGAATGGTTT AACTTTGTAC TCTTTGAAAA ATAATGCTGA TTTATAAATC TCTGCCTATA 120
NCAGAATGGA AA 132

SEQ ID NO:5688

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06756

SEQUENCE DESCRIPTION:

GATCCTGCTG TGGCACGGGG CCTATGTGTC TCTGTCGCGT CTGCTGTGAA GACATGATGC 60
TCTATTTATT GTAGAGAGTG ACTTTATTTG CTTTCTAGAA TTGTTTATAA CAGATGGTAT 120
AAGAGAGGTA ATAAACAGAG AAAAATCTAT GCTTGTAAG AATACAAAAG TTAATTTTAC 180
CTACTATAAT ATGGCTGGCT GAANCTTATT TCCTCTCTNN GNAATAAATG TTCTANTGGG 240
CAAA 244

SEQ ID NO:5689

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06757

SEQUENCE DESCRIPTION:

GATCTTNTCT ATACCATTTA ATGTAGAAAA ACTAATTTTC TATAATTNTN TCTATTAAAG 60
GTGACATTAA TGCTGATAGA AAAATATTCC CACATATATC TNACTTGGA AACTTATAAA 120
AATTGTGCTG TCTTTAAAAT AAA 143

SEQ ID NO:5690

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06758

SEQUENCE DESCRIPTION:

GATCGCAAAG GGATTGTTCT TATAAAAGTG GCATAAATAA ATGCATCATT TTTAGGAGTA 60
TAGACAGATA TATCTTATTG TGGGGAGGGG AAAGAAATCC ATCTGCTCAT GAAGCACTTC 120
TGAAATATA GGTGATTGCC TGAATGTCGA AGNTCTACTT TTGTCTATAA AACACTATAT 180
AAATGANTTT TAATAAATTT TTGCTTCAGC ACTTGGAAG 219

SEQ ID NO:5691

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06759

SEQUENCE DESCRIPTION:

GATCTAGATG AGATTACCCA TAGCAGGGAA AATAATTCAT CACCTACCAA AGACTGTACG 60
GAAAGGTGTG TTATTTTCAA AATTGCATTT TAGTTTGCAC ACATGTAAAT NATTATCCTA 120
TGTTAATCTA ATTGACAATT CANTTAGCTC CGCATCCTAA GACTTAAAC TAGCAATTCC 180
TAGCAAATC ATCTGCTTAA CTGANCTACA AACGTTTTTC ATTAATTCAT TCTTTGATGA 240
CATATTCCAT GTTATATANT ANTNCANAAT AAAGTTAATA TACTACCCCA AA 292

SEQ ID NO:5692

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06760

SEQUENCE DESCRIPTION:

GATCCTCTCG CTTGTTCACT GGGGCATGTA CAGTGGGCAC GGAAGCTGG AATTCGTATG 60
ACGGAGCTTA TCTGAACTAC ACTTACTGAA CAGCTTGAAG GCCTTTTGAG TTCTGCTGGA 120
CAGGAGCACT TTATCTGAAG ACAAACTCAT TTAATCATCT TTGAGAGACA AAATGACCTC 180
TGCAAACAGA ATCTTGGATA TTTCTTCTGA AGGATTATTT GCACAGACTT AAATACAGTT 240
AAATGTGTTA TTTGCTTTTA AAATTATAAA AAGCANAGAG AAGNCTTTGT ACACACTGTC 300
ACCAGGGTTA TTTGCATCCA AGGGAGCTTN 330

SEQ ID NO:5693

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06762

SEQUENCE DESCRIPTION:

GATCANAGGT CTTGAGGTCT TTACATCTTG ACATATACAC TGAAAAAAN GGGGGTTGTA 60
TGTATNAATG TGCTACCCAA ACCTNTGGCC GCCACTTTTA AATTCTCAGA TTGCCCTGAA 120
TTTTGNCAC TTNAAATAAT GNN 143

SEQ ID NO:5694

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06763

SEQUENCE DESCRIPTION:

GATCTTAATG CTCTCCTGC TCTGTAAGCC TCTNAAGAGC AATATCTAAT TAATTATTAC 60
 TGTAATTTTT TAAAAGGCTT TAAAGTGCCT CAGGGGTCCC CTGAACTAA TTTCCTATTT 120
 CTGGGATTCC CTGGATTCAT TATATGNNAT GGTGACATGA TTAGAGGAAT TCNTTTTAAG 180
 TATGAAANTT GTCCCTTTC TNCTTCAGTA CTTGCCTCCT NGCTGGCATT GANTTAACAC 240
 AGGGACAAAA TTGGTTAAT TNNTNATTNC NAN 273

SEQ ID NO:5695

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06764

SEQUENCE DESCRIPTION:

GATCTGTACT ACAGGAACCA AATGTCATGC GTCATACATG TGGGTATAAA GTACATAAAA 60
 TATATCTAAC TATTCATAAT GTGGGGTGGG TAATACTGTC TGTGAAATAA TGTAAGANGC 120
 TTTTCACTTA AAAAAAATGC ATTACTTTCA CTTANCACTA GACACCAGGT CGAAAAATTTT 180
 CAAGGTTATA GTACTTATTT CAGCANTTCT TAGAGATGCT AGCTAGTGTT GAAGCTAAAA 240
 NTAGCTTTAT TTATGCTGGG NTGGTGATTT NTTTATGNCA AAATTTTNT AGNGCGAANC 300
 ATGTGGTGGN TAGCTTGGNN ATGAANGAAT TNTGN CN 337

SEQ ID NO:5696

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06765

SEQUENCE DESCRIPTION:

GATCTAGAAG TTGCAACATT CGTTTGATAG GAATTCAGCA AAAGNAGAGT TATGAGAATA 60
 GGGCAGAGGA CATAATTAAG GAAATAATTG ATGAAANCTT TGCAGAACTA AAGAAAGGTT 120
 CAAGTCNCGA GATTGTCAGT GCTTGTCGAG TACCTAGTAA AATNGNATGA AAAGAGGCTG 180
 GCTCCTAGGC ACATCTTGGT GAAATTTTGG AATTCCTAGT GATAAAGGGG AAATNATAAG 240
 GGCTNCTAGN GGGNGANGGG AATTNCNTGC CAGGGANCAG GNTCAGTTGN 290

SEQ ID NO:5697

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06766

SEQUENCE DESCRIPTION:

GATCATTCCT GTATTAACT TTCATATGCC AAAAGGGTTT GTCCCGTTTN ATCTGCCATC 60
 AGTGTGTTGAC CTGTTTAGGG CAGAGGCAAT AAGTCAGAAG TCTTGAAGTT GAAATAGTTA 120
 TATGTGTGTC ATTGGACTGG ATTATAAACA GCTGTCTTGG ACTTTCCCTC TCTTAACACT 180
 GACTGGTNAT CAGTATCATT AGTGAAAAAG NAAGCAAATT GTTGTGNATC ATCTCTTTAG 240

NCAGGTAAGC TGGAATGGGT GGGGCTTAA ATAATANAAN CATGCGCATN GTTGGCTTGT 300
 GTATGGGCCT NCTCTGGGA TTCCTNGTNG TNATGGGCTT GGTATTTTGG GTNCNTGATT 360
 TTGTCCANNG GCANTNCCAG GTGGGTGCCA NCN 393

SEQ ID NO:5698

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06767

SEQUENCE DESCRIPTION:

GATCCANGNT AAGAGGCNCC CCCCCGACCA GCAGAGGCTC ATCTTTGCAG GCAAGCAGCT 60
 GGAAGATGGC CGCACTCTTT CTGACTACAA CATCCAGAAA GAGTCGACCC TCAACCTGGT 120
 CCTGCGCCTA NGGGTTGCTG TAAATCTTCA ATCAATGCAA TNNCNATGCC CATNAN 176

SEQ ID NO:5699

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06768

SEQUENCE DESCRIPTION:

GATCTACTCA GACAGGACCT TCGCACCTTT GCCAGAGTTT GAGCAGGAAG AGGATGATGG 60
 TGAGGTAACT GAGGACTCTG ATGAAGACTT TATACAGCCC CGNAGAAAAC GCCTAAAGTC 120
 AGATGAGAGA CCAGTACATA TAAAGTAAAA TNACATGGAT TTAAATCAAT TGTTTAAA 178

SEQ ID NO:5700

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06769

SEQUENCE DESCRIPTION:

GATCGTTTCT TTAGAAAAGT GGCATTGGCT TTTGAATATG AAATCTTCTC ATAGCTGCCT 60
 AAAAAAGACT AGAATGTATA TGGATATCAG AAACCTTTAA TAATACATAA TTTATGCAAA 120
 GATAAGATAA AGCAACATAA CACTAATTAT AAAACTATTT TTAAATCCCC ATTTTAAATG 180
 ATAANTATAC ATTTNTATTT AATTCCTTT GANTAAAACA NTTGTAAAGT AAA 233

SEQ ID NO:5701

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06770

SEQUENCE DESCRIPTION:

GATCTTCATC TGAATATGAC ATAAAAACAA CTTTATACCC AGAAAGTTAT TGATAAGTTC 60
 ATACATTGTA CGAAGAGTAT TTTTGACAGA NTATGTTTCA AACTTTGGAA CAAGATGGTT 120
 CTAGCATGGC ATATTTTTCAT CATATCTAGT ATGAAATTAT ATAAGTNTTC TAAATTTTAT 180
 ATCTNGTAGC TTTATCAAAG GGTGNNANTT ATTTNNTTCA TACATATTTT NGTAGCACTG 240

ACAGATTTCC ATCCTNGTCA CTACCTTCAT GCATAGGTTT NGCAGTATAG TGGCGCCACT 300
GTTTTGAATC TNATAATTNA TACAGGTCAT ATTANTNTAT NGCCCTTAAA AAANATCAGT 360
TGTTCCAGNG GAAN 374

SEQ ID NO:5702

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06771

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTCAGCCTC CTGAGTAGAC GGATTATAGG CACCTTGCCC AGCTTCTATA 60
GCAGCATTTT TTTCTAACAC CTAAAAATG GAAACAAGCC AAATGCTCAT CCACTGGTAA 120
ATGGATAAAC AAAGTGTAGT CTTTCTATAC ACTGGAATAT TTGGCTATAA AANAGANTGA 180
NATATTGATA CATGCTACAA CATTGATGAN CTTCAAAAAC ATGCTAAGAG AAAGCCAGTC 240
ACAGAANAAT ACATNGTATT CTATAAGAAT GTCTAGGGAN CGTNAATCTA TATNGGCAGA 300
AGGTAGGTTN GTGGTTGCCT AGGGCCCGGG GGGAAAGGGT TAGGGGGCCT NGGGGGTGNC 360
AGCTTATGGG GCTGCTAATN GGGCCTNCCG NTTCTCTTN GGGGGTTGGT ACCCTGCTAA 420
ATTGNCCTNN TTGGCNTGGT TTNNCCCGG GN 452

SEQ ID NO:5703

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06772

SEQUENCE DESCRIPTION:

GATCTGTCTG TGCACATGCC TCTGTAGAGA GCAGCATTCC CAGGGACCTT GGAAACAGTT 60
GACACTGTAA GGTGCTTGCT CCCCAGACA CATCCTAAAA GGTGTGTAA TGGTGAAAAC 120
GTCTTCCTTC TTTATTGCCC CTTCCTATTT ATGTGAACAA CTGTTGTCT TTTTGTAT 180
CTTTTTTAAA CTGTAAAGTT CAATTGTGAA AATGAATATC ATGCAAATAA ATTATGCAAT 240
TTTTTTTCA AAGTAAA 257

SEQ ID NO:5704

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06773

SEQUENCE DESCRIPTION:

GATCANGAAG CTATTTTCNA TTCTGGGGAA CGATTATAAC TTAAATNATT GTTTAATAA 60
AAATTCTAAG CTGGAAA 77

SEQ ID NO:5705

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06774

SEQUENCE DESCRIPTION:

GATCCAATTT CTTTGTGGTA CCTGCAGTTT ACAAATAAT TTGACTTCAG TGAGCATATT 60
 GGTATCTGGA TGTTCOAATT TAGAACTAAA CCATATTTNT TACAAAAAGA TATTAATCCC 120
 TCTACTCCA GGTTCCTTT ATATGTTAAG ATATAATGGC TTTGAGGGGG GAAAAATAA 180
 ACCTAGGGGA GAGGGGAGTT TCCTGTAGTG CTGTTTCATT AGAGGATTC AGTAAATTAA 240
 ATTCCACAGC TAATTGAATA AATAATGGNA CCTTTAAA 278

SEQ ID NO:5706

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06775

SEQUENCE DESCRIPTION:

GATCTGCATA TNATGTATTA GGTTAGGTCA CAAAGGTTTT ATCTGAGGTG ATTTAAATAA 60
 CTTCTGATT GGAGTGTGTA AGCTGACCNA TTTCTAATAA AATTTAGTT GTACACTTTT 120
 AGTNGTCATA GTGAAGCAGG TCTAGAAAAT AAGCCTTTGG CAGGGAAAAA GGGCAATGTT 180
 GATTAANCTC AGTATTAANC CACATTANTC TGTATCCCAT TGTCTGGCTT TTGTAAATNC 240
 ATCCAGGNCA AGNCTAAGTA TGTTGGTTAA TAGGNATCCT TTTTTTTTTT TTNAANGCCT 300
 AANNNGGN 308

SEQ ID NO:5707

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06776

SEQUENCE DESCRIPTION:

GATCGTAACC CTTGTTGAC TAATCTNGCC GTGGTTTTGT NTAGGTCTGC AGGAAGGAAG 60
 NCTNAAAAAG CGGACGAAGA TTTNACTTA AGTGGGACTT TGTN 104

SEQ ID NO:5708

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06777

SEQUENCE DESCRIPTION:

GATCCTAGTA AGTCANTNGT AGTTTACTGG TGANGTGAGC ATTNTAGATT CCCCCNTTAT 60
 CACTAATCAC ACAACAATTT TAAGAAGTAG GCTATAAAC AAAAAAAGGT TGCTGTTTC 120
 TATTTTAAA TAAACNN 137

SEQ ID NO:5709

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06778

SEQUENCE DESCRIPTION:

GATCTCATT GCTGGAATGA TTGATTAAAG AGTAAAATTA GCCACTGCGT NTGNTNGTG 60
 TATAGTAACC GGTNTTNTTG CACTTGTCTG TGGCTGAAAC ACTTACCTGC AGTGGAAAGC 120
 CGTGCAAGGA GGAGGTAAAC ATTGGAGATG TTTGTNAAAA TATTACTCTT GCTGTGAGGT 180
 TTTAGTTTGT TTTGAATGAG AAAAGACTAA GTAACCTAAT CCATCTCAAT GTAGTGT TTT 240
 AATANNNGG GNNCTAATA TTTGANATGG GTCTCAGACA TGTCTACAAA TATGGGTACT 300
 ATTTNNTGC CCGTGTATT TCACATTNA NAN 333

SEQ ID NO:5710

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06780

SEQUENCE DESCRIPTION:

GATCCTTATA AATNAGAAAC ATGCAAGCTT CAGCTGCTCG AGTCTATAG TGTCACCTAA 60
 ATCGTATGTG TATGATACAT AAGGTTATGT ATTAATTGTA GCCCGGTGNN CNTCGNGGGN 120
 ACCTTN 126

SEQ ID NO:5711

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06781

SEQUENCE DESCRIPTION:

GATCCGGCAA ACAACCACC GCTGGTAGCG CGTTTGTNTT TGTTCGAAG CTCAGCTGC 60
 TCGANTTCTA TANNGCCACC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATTAATT 120
 GTAGNCGTTN GCN 133

SEQ ID NO:5712

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06783

SEQUENCE DESCRIPTION:

GATCCTTTTA AATNAAAAAT AAAGTTTAA AAAAAACAT GCAAGCTTCA GCTGCTCGAG 60
 TTCTATAGTG TCACCTAAAT CGTATGTGTA TGATACATAA GGTTATGTAT NCNNNN 116

SEQ ID NO:5713

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06784

SEQUENCE DESCRIPTION:

GATCTTCTCA ATGGGTGGNC TCCTGGTATT CGTGGGACCA CCTGTGGGCA CAGGAGCCAA 60
 TGTGGTTCAG ACAGCTGGGC AGAGGGAGCT GCTAGTCAGC TGTTGCCCA CACTCTGCCT 120
 GTCATGGTGA TTGNACCT ACCCCCTGG TCCCAGNGNC CTGGGGCTCA CTTGATACCG 180

TTGAAAGTAA GCACAGNCTG CATGTNCTCA GGNAGGNCCT GGGGCTCAGG GCACTCGAAG 240
NCATCAATGN TGGGNACANT GTTNTTGN 268

SEQ ID NO:5714

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06785

SEQUENCE DESCRIPTION:

GATCTCAGAA TACAAATTTA AATAAATTAA TTAAATTCTC AAAACACCCT TGATTGGAAC 60
TTACAGCTGG CCCTCTGTAT TCGTGGGTTT AACCAATCAC TAATTAATAA TATTGGAAC 120
AANNNNNNN 129

SEQ ID NO:5715

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06786

SEQUENCE DESCRIPTION:

GATCCTGCAT TTATGGTGTA GTTCTGAGTC CTGAGACTTT TCTGCGTGAT GGCTATGCCT 60
TGCACACAGG TGTTGGTGAT GGGGCTGTTG AGATGCCTGT TGAAGGTACA TCGTTTGCAA 120
ATGTCAGTTT CCTCTCCTGT CCGTGTGTTG TTAGTACTTT TATAATGAAA AGAAACAAGA 180
TTGTTTGGA TTGGAAGTAA AGATTAATAA CAAA 214

SEQ ID NO:5716

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06787

SEQUENCE DESCRIPTION:

GATCTAATCC CTCAAGGAA GTGATAACAC TGGAGTGGA ACAAGAGGAG CAGGAAGCAA 60
GGCCAGCCCT GGTCTCCAT CCCCATGTGT TTCAGGTGGA ACAGGAGGAA CTGGNCCAGG 120
CCAGGCCTCA TCCTCCTGGA CCCAGCAGGG GCAGAAGGAG GAAGGGACTG GTCCAGGCAT 180
GGGTCCCTTC CCNNTGCTCC ATGGGCANCT CTGCTGTATT GATATCACTA GTAAAGTCTG 240
TCTGCACTGC AAA 253

SEQ ID NO:5717

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06788

SEQUENCE DESCRIPTION:

GATCATGTCT TTCAGAATCC ATGTACATAT AGGCTGTNCT AGCCACAGTG GTAGATTTAT 60
GATTCACATC CGAAAGTGTG CCTTAGTTAT CAATTTAACA TTTCTCTAGT ATTCATATCC 120
CTTCCTTAC CATATACCTC AGTGTATCCT TCCTGTGTCA AGCCTTATAA ATCATGTAAT 180

TTAGTGCCAC TCATGTAAAT CAGTAAATC ACAAAGGTCT ATTTAATGAA AACGATTTAC 240
 CAATGTTGTT TTTTTTTAAC AGGANAAGNA NTAGNAGCAC NTTGTCATTT TTNAGANGGN 300
 GGNNTTGTG GGNNTGGGG GGGNNGNTTG GN 332

SEQ ID NO:5718

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06789

SEQUENCE DESCRIPTION:

GATCATGCCA CTGCACTCCA GCCTGGGCAA CCAGGTGAGA CCCTGCCTCA AAAATAATAC 60
 AATAAAAAGT AAAAGCAGCC CTGGGGAAAT GGAGACAGTG GACAAAGCAG GCTGGGGCAC 120
 CAGGTGTGCA TGTGGGTGTG AGTCTGTCAT GAGAGCTGTC CTGANTGCCC TTAACGCCAC 180
 TGAACGTAT GCTGGAAAAC AGTGACAACA GTGGATTTTG TTATATAGAC AATTANANN 240
 GTATANCACC CAGANANNT GTGTGNNTGT TGGGNGTGG TGNN 284

SEQ ID NO:5719

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06790

SEQUENCE DESCRIPTION:

GATCTTTAAC TCCTCCTGGC TGCACCTGGG TAGGGATGGT GGCATCGATG CCCCTCTGTC 60
 TGCTGAAGGA CCTGTTGCTG CTTCTGTCTT TTCACCCCTC CTGGGCTGAT GACCCAGAGC 120
 CCTCTGATGA TGGCATTCTC CTGGCAAGAG AAAAAGACTT AACTAGACTT CTGAACCTGA 180
 ACAGTTTCAG GTTATATTTT AATTTTNNNT TTTTGTAC NGGTNCNGAT NCTAATACAT 240
 TNCACNNGC AAA 253

SEQ ID NO:5720

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06791

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCCC ACAAAGTGCT AGGATTACAG GTGTGAGCCA CCATGCCCGG 60
 CCCAGAATAC TTTTAAAG AAGAGCAGGT TAGAGGAAAG AAAAAATTG ATGCTGAATG 120
 TGGTGATGAA AGCATGTTTC TAAATGGGA AGCAGATGCT TAANGAGGAA AGACTAATCT 180
 GGGATTTTGC CCCATTCTC TGGNTTTC CTCCTATATT TNATTCTCAC AATCGTGTCG 240
 TCACATAGTG CANAANACAN ATTTCTGTGTA AAGTCCCAG GGGTTATGC TTGGGTGAAA 300
 GTTTAGCCT GAGTATTTT CTTNCTCTAA AAANAGGTGG GGANTGNGNC ATTTGAGGNT 360
 NTTNACCTTT TAATTGTNCT GCTATNGGN 389

SEQ ID NO:5721

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06792

SEQUENCE DESCRIPTION:

GATCTGGTTG GGGTTTTGGG TTTTGTGTG TTGTTGTTA TTTGTTATTT TAAAGGTAA 60
TTGCACTTTT AAAAAATAA TTGGTTGACT TAATATATTN NCTTTTTTNC TCACCTGCAC 120
TTAGAGGAAA TTTGAACAAG TTGGAAAAA ACANNNTNG TTTCAATTCT ANG 174

SEQ ID NO:5722

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06794

SEQUENCE DESCRIPTION:

GATCCTATGT TGCTGGAAC TGCCAAACAG GATGTTGTGC TCAATNACCC CATGTGAGTG 60
CGTGGACTCC TGGGAGCTCC TGCTCCNTAC AGTGGGCTGC AACTCCTGTA CTTGAAGCTG 120
AGACCTCATA TGACGTGGCC TTCGTGTTGT CAGAGAGTGT CTGGAAGCTG CTGTTGCCAT 180
CTTGAACAAC TCACCAACCT CCAACCCAGA GCCCCAGTGA GAGAGGAGCA TTTGGCCTCC 240
TGCTTCTTC TGTGGCCTCT GCCGGGCTCC ATTNCCAAGG AAAAGAGAGG AGCTTGGGCT 300
CACAGAAAGA GAAGGGGATG AAACCCCAAG NGGCCCTATC TTTTGGGATT TACATGGGAT 360
TTTTATN 367

SEQ ID NO:5723

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06795

SEQUENCE DESCRIPTION:

GATCTGAGT AATCCTTTTA GAGCCCGAAG AGTCAAAACC CTCAATGTTC CCTCCTGCTC 60
TCCTGCCCCA TGTAACAAA TTTCAGGCTA AGGATGCCCC AGACCCAGGG CTCTAACCTT 120
GTATGCGGGC AGGCCAGGG AGCAGGCAGC AGTGTCTTC CCCTCAGAGT GACTTGGGGA 180
GGGAGAAATA GGAGGAGACG TCCAGCTCTG TCCTCTCTNN NNNCTCCTNC CTTCACTGTC 240
CTGAGGAACA GGACTTTCTC CACATTGTTT TGTNTTGCAA CATTTTGCAT TAAAAGGAAA 300
ATCCACTGAA A 311

SEQ ID NO:5724

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06796

SEQUENCE DESCRIPTION:

GATCCTCCGG CCTCAGCTGG TCTACAGGCG GGTAATCAAG GGAAGGGAC TACAGGCGCG 60
CCCTGCCGCG CCGGGACAAG TTTTGTATTT TTAGTAGAGA CAGACTCTCC CTGTGTTGCC 120
CAGGCTGGTC TCCAACCTCT GGGCCTCCCA AAGTGTGGG ATTACAGGCG TGAGTCACCC 180
CTGCAGGCCA CAGCTTTGCT TTTTAAAGC ATTTCTGCAT AACTAAAAAG ACAGGAAATT 240
ACGAGCATAC GGNAAGTGAT TTCTGCTTTC CTGAATTTTC TAAATGTATT TAATGGGCAT 300

GGTTCTTTTG CAATGAAAAA GTAATANATT NGGGTNTCAT CN

342

SEQ ID NO:5725

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06797

SEQUENCE DESCRIPTION:

GATCCGCCGA CCTCGGCCTC CCAAAGTGCT GGAATTACAG GCGTGAGCAC GTGCGCCTGG 60
CCAAGAATGG ACATTTTTTA AAAAAACATC AGTACTTCCT ACCACTGCTG CATGAGTATA 120
ATGCTCCGGA ATTATCAGAA AGCATAATGC AGAAATACGA ATTAGTGGAA CTTAATCATG 180
TGCCATATAA GCTTACCTAA CAAACAGTTA TATCCCTATT CCTCAACTGA ATGTCTTTTA 240
ATAAATNAGA NTTTATCATT TNNNGTANGG GTGNGTGTGN GGNTGGNNGG GGGGGGGGNG 300
GGGNNGGGGN GN 312

SEQ ID NO:5726

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06798

SEQUENCE DESCRIPTION:

GATCCTAGGC TCCCTCCATC CCTGGTATGT GGTCTTCATT TTCATATAGA CCAAGAGCTA 60
GAGCTCCAGT TACCATTCTT TAAAGTATAT TTAAATGCCA AATAGTGAAT AAAGGTGGCC 120
AGAAAATTCA AA 132

SEQ ID NO:5727

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06800

SEQUENCE DESCRIPTION:

GATCANCTAA GGTCAGNAGT TNGAGACCAG CCTGACCAAC ATNGTGAAAC CCTGTCTTTA 60
CTAAAAATAC AAAAATTAC CAGGCACCTA TAATNCCAGC TACTTCAAAG GCTGAAGCAG 120
GAGAATCACT TGANN 135

SEQ ID NO:5728

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06801

SEQUENCE DESCRIPTION:

GATCAGTGGG CCTCCAAGGA GGGNCTGTAA AATGGAGGCC ATTGTGTGAG CCTATCAGAG 60
TTGCTGCAAA CCTGACCCCT GCTCAGTAAA GCACTTGCAA CCGTCTGTNA TGCTGTGACA 120
CATGGCCCTT CCCCCTGCCA GGAGCTTTGG ACCTAATCCA AGCNNCTCTT TGCCCAGAAA 180
GAAGATGGGG GAGGAGGCAG TAATAAAAAG ATTGANGTAT TTTGCTGGAA TANGTTCNGA 240

TTCNTCTGAA CTCAAACCTGA GGAATTTTAC CTGTNANCCT GNGTCGTACA GANAGCTGCC 300
TGGTNTATCC AAAANGCTTT TTNTTCCTCC TGTN 334

SEQ ID NO:5729

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06802

SEQUENCE DESCRIPTION:

GATCCTGTAA GCAGACTTGG GCAGTCTCCT TTAGAAATAG GTTGTCTGTA CATGTTCTAN 60
GGTNTTGTAG ACACGTGTGA CTGTNTANGT GTATTGATGT GAATANTATT AAATATCCTA 120
ATTATNTAAT TCATTGTATT GTTTCTGNGA AGTTGGGN 158

SEQ ID NO:5730

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06803

SEQUENCE DESCRIPTION:

GATCCATANA AGAGCTCCTA AAGAAGAACC CACATGAAAA ACTATCAGAA TCATGTTTAA 60
GCTAAACCCA TATNCAAAGA CCAANCNACG NACCACCATT CTTCGN 106

SEQ ID NO:5731

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06804

SEQUENCE DESCRIPTION:

GATCCTGGTG TGTGTATTAT ATAAAGAGAC CCCTCCCCTT ATTTTGTGTT TTCCATCCCT 60
CTCCCTTAAC AGGATTGAAA TAAACATGC TTCTGTTTTT GTAAA 105

SEQ ID NO:5732

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06805

SEQUENCE DESCRIPTION:

GATCANCAAA ATCCAATTC ACATGTGGCA CTAGGAAAAT GGAATGCTAT AAAATTAATC 60
CCCATACCC AAGTAGGGAT GCTGGTGCTT TTATACTGAG TCTTTACTGC CAATAAGTGA 120
TGCTGGCTGC AAAGGANCAG CTCTACAGAA AGTTTTTGGG TTAGTGTTC CCTAGCTTAT 180
TNCTGCANTG GGGAAAGCCA GTTTCATACC AAAAANGANA ATGNAGGTGN TTATANTGGN 240
NNN 243

SEQ ID NO:5733

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06806

SEQUENCE DESCRIPTION:

GATCTCGGTC ACGTGTCCTG GCGCTGAGG GGAAAGGAAG CGGGCATGAT TG TAGACAAT 60
GAGGGGGTTC TCTGTATGTA ATGAAATGCA ATTTTATGGT TTGGTGCAAA AACTCCTATT 120
TTCCAGTAAA TTAACCTTAT TTCTAAAGCA TATTTTGATT TGCCATCAAG AGCAATAAAG 180
CATTAAATCT TAAA 194

SEQ ID NO:5734

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06807

SEQUENCE DESCRIPTION:

GATCTGGGCC CTGAAGTATA TAAGTAGGAA TTTGCAAGAT GGATGAGGTA GAAAANNGTA 60
TTTCATATTG TGGAATAAAC AGAGGGAAGA GCCATTGTC TTATCCCCAA CTCCAGAACT 120
CTACTACTCA TGGAGTCTGA CACAAACAAT GTTAATAATC TGTTTNAGTT CTCATNATAG 180
GGCACTGGAN TTGGCTGTAA ANTNC AAAAC ACNTNN 216

SEQ ID NO:5735

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06808

SEQUENCE DESCRIPTION:

GATCTTCTAG TTNCTGTGTT GTTTAGACTC AAAGAATCAC AAATNTGTCA GTAACATGTA 60
GTTGTTTAGT TATAATTGAG AGTGACAGA ATGGTAAAN TNCCAATCAG TCAAAAGAGG 120
TCAATGANTT ANN 133

SEQ ID NO:5736

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06809

SEQUENCE DESCRIPTION:

GATCTTAGCA CCCAACTCTG CTGCCCTTNC TGCTGGGCAG TGCTNTCCT AAGAGGGGAC 60
TCCCTAAAGG CCAGAGAGAG GGTGCTCATC TCCAGGACCT AGGCCACCTG TCAGCACAAA 120
CAGAACTTAT TCCAGACATA AACATGAGTC TTCTTATTC AAACACTGGA GCAACTGNTC 180
AAATATCACT CTCCTACTTA CAGGNCTCAN CATACTNGTC ACAGCCCTTT ACTCCCNCTA 240
CATATTTNCC ACANCACANT GGGGCTCANT NNCCN 275

SEQ ID NO:5737

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06810

SEQUENCE DESCRIPTION:

GATCATGCTA GTNACTTCCT GCCCCCAGGC ACCGTGCCAA ANACTGGATG CCCCTACTC 60
CTCAGGGGAC TGCCAGGGC GCCCAGTGGT AGTGAGGGAG AGTGTCTCTG TTCTTTTGCT 120
CAGCCTGCTG GGCCCTTTGT GTTTGAGGAT GCTTAATGAT TCCAGCCTCT CACTGTGCCT 180
TATGCATTAA AATTNCTTTG TTACGAGCAA A 211

SEQ ID NO:5738

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06811

SEQUENCE DESCRIPTION:

GATCTNCTTT ATAGCCANCT CTCCTCACTT AACAGGTACT TTCTCCAAAA ACCTAAGAAC 60
CAAAGTCTTC CGCTTGCAAC TTGGGATGGT GATATGGCTG TGTCCCCACC CAAATCTCAT 120
CTNCACCTGN NNN 133

SEQ ID NO:5739

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06812

SEQUENCE DESCRIPTION:

GATCATCGCA AGGAAGNAGG CAGACAAGAG TAAGGCACAC CTGACTCTTA GGACTAGCAG 60
TCAGAACAG GAGGAAAGNT TTTATTGCTA TGCGGGTAGG TAAGAACAGA TTTACTTAC 120
ATCCATATAG TTAATTAAAG TCCAGTTTTC TGTTAAACNN NNTTCTNNN 169

SEQ ID NO:5740

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06813

SEQUENCE DESCRIPTION:

GATCTCTTGT CCACTAAGTA TCTTGTTAAA TGCCAGTATC TCAGTCTTTC TGAAGCCCTG 60
AAATGGTAAT TGTAGCATTT CAGAAAATNT CTTTCATTTC AATCAATAAA AAGCTTTTGT 120
AAATAAA 127.

SEQ ID NO:5741

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06815

SEQUENCE DESCRIPTION:

GATCTTCAG ATTAGGCTAA ATGTAATGAA AACCTCTTAG GATTATCTGT GGAGCATCAG 60

TTTGGGAAGA ATTATTGAAT TATCTTGCAA GAAAAAAGT ATGTCTCACT TTTTGTTAAT 120
 GTTGCTGCCT CATTGACCTG GGNAAAATGN AACAANACAN TAAGGCAANT GGTAGGAAA 179

SEQ ID NO:5742

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06816

SEQUENCE DESCRIPTION:

GATCAGCCCT NCCCTTCAGC ATCCTCAGNT CCTGNAGCAG AGCCTGGAAG ACACCCTAAT 60
 GTGGCAGCTG TCTCAAACCT CAAAAGCCC TGAGTTTCAA GTATCCTTGN TAACACGGNC 120
 ATGACCACCTT NCCCGTGGG CCATGGCAAT TTNACACAA GCCTGAAAAG ATGTTGTNTC 180
 TTNTGTTTTT TTCTTN 196

SEQ ID NO:5743

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06817

SEQUENCE DESCRIPTION:

GATCCGCACT CCTAACAGGG TGAGAAAGCA CAAGAGGGGC CAGCTCGGCT GAGGCCTGAG 60
 GAGAAATAAT GAGAAGTTTT GTTTCGTTCT TGGGCTGGGG CATCTCAGGA ACAGTGAGGG 120
 CAACAAGCTG TCCCTCAGGG ACCCTCACCT GCCCTCCCAT GTGACCAGGC CTTCCCAGG 180
 TGGGGACTGG GGCTTGCTTT ATTAAGTGAG CTCTGGGCT TTTGAAGTAG GACAGAGGGC 240
 CCTGTTTGG CAGAGAGGAG GCAAGGGAGG GCTTTAGAAC ATCTGAGAAA TGTTAATAAA 300
 ATANTTCAGA AANTAGGAAA AAAATN 326

SEQ ID NO:5744

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06818

SEQUENCE DESCRIPTION:

GATCTCGAAC CCTGTCTAGA AGGAATNTAT TTGTTGCTAA ATGTTCACTT TTTATAGTNA 60
 TGTCTGTAT TCTAAACAGT AAAGGGGNTT TATTNCTATC ACAA 105

SEQ ID NO:5745

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06819

SEQUENCE DESCRIPTION:

GATCTCAGAA GTTTTAAAA ATAGCAAAGA AGACTGNATT TGGAANCAAT GGTCTACAAT 60
 TGGNTGTAA ATNCTGAAGC TATGAAGAAT AAATATTTC ACTTTGGATT ATGAAACCCC 120
 ATTTATGATT TTTAAATAC ACTTGAAATA AAAATGATTA AACTAAA 167

SEQ ID NO:5746

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06820

SEQUENCE DESCRIPTION:

GATCTNTAGA ATTNTTATTG TAATTTTCCT ACTTCTTTGA TAAAAGAAAA ATAAGTCAGA 60
 TTGTTAACTC CAAGATTGAA AAAAAAACT CTTGAAAGAN GATTATNAGT TGTAACNAAT 120
 TTGGGGGGTC TGGGCACAGA CATCTAACCT GGTATTGTAA GGCAGAGGCT CCCATTGGAN 180
 TGGTAGTGGT CCGGGTCAGT TGTTCATGGT GTAAGCTTTG CACNGTGTAT TGAACATTNG 240
 NAGGNTCTGN CTNGAAAN 258

SEQ ID NO:5747

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06821

SEQUENCE DESCRIPTION:

GATCCCTGCC CTTNTCAAGA CTTTAGCTNT TCCTTCCATC CGGTGGCCTA TTCCAGGAAT 60
 TCCTCTTTTG CTTAAATCAG TTGGAGTTTG TNTCTGTTGC TTGTAATCAA GCCTTTATGG 120
 CTGCTGGGCT GAGTGACACA AGCACTTTAA TGGCCTGGAG GGACTTTTAA TCAGTGAAGA 180
 TGCAATCAGA CAAGTGTTTT NGAAAGAGCA CCCTCGNGAA GGGTGGATGA CAGGGCAGGG 240
 CAGGAAGGNC AGGNAGATGG CAGAACGGTG GTGGCTGCAG CCGGGGGTNC AACCAGGANA 300
 CTGGTTGGCA AGCTNGGGGC TAGGGGGTAA GGNNTTTTNA GGGGTNGAAN 350

SEQ ID NO:5748

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06823

SEQUENCE DESCRIPTION:

GATCTTCCAT GTTTTGACGT TTGCAGTCAC ACACAACACC TTAGTTCCTC TAGGGGCTGT 60
 ACAGTATTGT GGCATCAGAT AATGCCACCA AAGGAGACAT ATCACTGCTG CTGGGACTTG 120
 AACAAAGACA TTTATATGGG TTTATTTTCA TTCTGCCAAA GTAAANCANT ACATCAACAN 180
 GAGGAAACTC AGNTTTAACC TGTATTCT ATGANNNTGG GATGATTGCT TTGTTTATGC 240
 ACTTTTTCCT GNCTGTGCAT CCGCCTGTNA GTGTTTTGCC CTNTAGTCCC TCACTAGCCA 300
 TGCTTNTGTG NTGGGTTATC ANGGGNGTNN N 331

SEQ ID NO:5749

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06824

SEQUENCE DESCRIPTION:

GATCGAGGAT ATTTTAAAG AGGTTCAAGC TTGTGACTGT TAGTAGTGCA AGGATTGTGA 60
TGGGCTCAGT GATTACAAAC AAAGACATGC AAANTACAAC TGTTTAAACA TTTTCAAGGT 120
ATTTTAAAG GTTTGTATT GAAACANTGT TTATTTTNC TGAGCTCCTA AAAATGGTAG 180
ANTACACATG ANANCTTTG TTTAGGAAAN GTTANCTTGT TAANTNCTNT TGATTN 236

SEQ ID NO:5750

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06825

SEQUENCE DESCRIPTION:

GATCCACCT TTGCTCCTGA CAACACTCAT TACACTAAAC ACCTCTTGGA TTTGGTGAAA 60

SEQ ID NO:5751

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06826

SEQUENCE DESCRIPTION:

GATCACTGGA TGGATAGCTC AGCCTGGGGC ATTTAGTGTT TTCCCTGGTG ATAAATCCCC 60
AAGGCAGCTG GATTGGAGC TGGTGGCAAG TTGAAATNAT TAAAAATTGA TTTGTGTGGG 120
ACTGTCAAA 129

SEQ ID NO:5752

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06827

SEQUENCE DESCRIPTION:

GATCTTTGGA CTGAGAATGT TTGGTAACAT AGTCAAGCAT TTGTTAAGCC AAGTGTGGAA 60
ATGTTCACTT TTAACTTTA CAGTTTTTTT AATGAGCAAT TCTACATTTT TAAGAAAAAA 120
GATACTTCAT TTTTATATAA GGTTACAACT GCTTTATAAA NCTGTATTCA CAATGTCAAA 180

SEQ ID NO:5753

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06828

SEQUENCE DESCRIPTION:

GATCTGGCCT TTTCTTAACA AAATCNGTGC AAAANATGCA GGTGGATGTC CCTAGGTCTG 60
TTTTCAAAGA ACTTTTCCA AGTNCTTGTT TTATTATTA AGTGCTACC NNGTAAATN 119

SEQ ID NO:5754

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06829

SEQUENCE DESCRIPTION:

GATCTCCATA AATNACTTAG TCTTCTATGT ATAGCTATCA AGGAAATAAA ACCAATTTTG 60
CCACAAA 67

SEQ ID NO:5755

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06830

SEQUENCE DESCRIPTION:

GATCAGAACA AAAACACCAC TCTTTAATGG GTCTTTTCT TGGCTAGAAG TCTTCTCTCA 60
GTTTTTGTG ACTATCATAC GCTGATTGT GGGTNATGGA AGGGGGCTAG AGATAACGTT 120
TCTCTGACT TTGGTAAAGN ATGAAGGAGT CAGAGAGGGA ACAGAAAAAG TGAGAGAGTG 180
GCCTGCTGAA ATAATAGCCT GCCTCTAAAA GTTGTGACCA GAAAGTATGA TTCATTGGG 240
CCCAGNGGGN GTAANNTATG TTTTNCATN TACCTCCCAT AGNACANGGT GTTNGGAGGG 300
NNGGAGTGAG TGTNNTAGAN GGN 323

SEQ ID NO:5756

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06831

SEQUENCE DESCRIPTION:

GATCAGGTGT CTATAACATT TTTAATTCTC TCTGGAAACA GACTCAGGTT TCTTTGGACC 60
AAATCCAAAA GAACACATAG CTGTAACACA GCTGTAGTTG ACTAGAATGC TCTGTATACT 120
TTATATTAATA AANTGCTTTG CATTTCTNCC AGTGCAATGA ANTTTCATATG GTGTCCCACC 180
TTATTTAATG ATGGTACANT TTTAAATCTT AGTCAACTGC TGTNGAAAAGT TTTCTCTATG 240
ANAGTNANGC TGTTTGAAGA ATTNANGNGN TTNN 274

SEQ ID NO:5757

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06832

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTCGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CTGAGCCCAG 60
NCTGTATCCA TGTNTTCTGC ATGTTGATTC AACCAGCTAC ACATGGACAT TGTAAGTAGG 120
CCTATGATGA TTGTGTCTGT TCTGAAGATG TACATACCTT TTCTTCTATC ATTATCCCT 180
AAACANTAGA GTATAACAAC TATTTACACA GCATTTACAT TGTATTGGGT NTTNTANGTA 240
ATCTAAAGAT GGTTTAAAGN ATNCAAGAGG GTATGCATAG GNTATATGCG AATACCACCT 300
CATTTTANAT NGNTGACTTG NGCNTCGANN ATGAGGGGAT NTGN 344

SEQ ID NO:5758

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06833

SEQUENCE DESCRIPTION:

GATCATGATA CAATTATTTT ATTAAGTCAT GGTAAATAAC AAATGAATCC AGACTTGTCT 60
AACAGATTTT CCATCAACAA ATATTGTTAT GTGCAAAAGT ATTGCCTATG TTGTTTACA 120
CACCCTGCA TTAAC TAGAA CTGCTGAGAG GACTGTATAT ATGATTTTAA ACCTAAGTTG 180
ATTTTTTTC TCACTCTTGA AAGGAGTACT TCTTTGTGAA AGCAGTTCTT ACAGCTTTGT 240
TTTCAACCAG CTA AAAATGT TTTGTATATN ACTCTAACCT GTTGCCTCC ACATTCTGTT 300
GGTNCTGATT GNTGCTGTNT NCTGGTTN 329

SEQ ID NO:5759

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06834

SEQUENCE DESCRIPTION:

GATCTATCCC TGCGGCCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60
GCCTAGCGGA NCCAGCCTGG GAGCCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120
AGCTNCTGCC ACATGGAGCC CCCTCTGNCG GTCGGGCAGC CAGCAGAGGG TNNGTAGCCA 180
AGNTGNTTGT NCTGGGGGCT GNCNTGTGT ATTCACCACC AGGTAAATTA GACCATTNN 239

SEQ ID NO:5760

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06835

SEQUENCE DESCRIPTION:

GATCAACTTT CTTCTGTGT GTGGCTCAGN AGTTCTTCTG CAGAGATGGC GCTATCTTTC 60
CTCCTCCTGT GATGTCCTGC TCCCAACCAT TTGTACTCTT CATTACAAAA GAAATAAAAA 120
TATTAACGTT CACTATGCTG AAA 143

SEQ ID NO:5761

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06836

SEQUENCE DESCRIPTION:

GATCGCATCC CACAATGCCA GAATAATAAA ATAAAATTGG ATATTTGAGA AA 52

SEQ ID NO:5762

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06837

SEQUENCE DESCRIPTION:

GATCCTCCCG TNCAGCCTC CTGAGTAGCT GGGATTACAG GCGCACACCA CCAATGCCCA 60
 GCTAGTTTTT GTNTTTTNA TAGAGACGGG GTCTCGCCAT GTCATTACAG TTGGTCTTGA 120
 ACTCCTGGGC TCAAGCAGTC TGCCTGCCTT GGNTTCCCAG TGCTGGGATT ACAGGCGTGA 180
 GCACCGTGCC CGGCTAAAAA GTATTTTNA GTTCTGCATA TNGCTTATTT CACTTAACAC 240
 TATATTAGAG NTTGTTTAT ANCANTACAT ATAGATATGC TTATCCTTGN TTGACAGTNG 300
 CATAATTNTT CCANTAAAT TTGGTTGTAT CNAGGGGCAN TTAACCCAGT TACTTAGNN 359

SEQ ID NO:5763

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06838

SEQUENCE DESCRIPTION:

GATCATNAAG GACATTCGCA ATCTGGAGGA CATCAGGAAG ACCTTACCAT CTGGCTGCTT 60
 CAACACCCCG TCCATTGAAA AGCCCTAGTC TCTTTAGGGC TGGAAGGCAG CATCCCTCTG 120
 ACAGGGGGGC AGTTGTGAGG CCACAGAGTG CCTTGACACA AAGATTACAT TTTTCAGACC 180
 CCCACTCCTC TGCTGCTGTC CATCACTGTC CTTTTTNAAC CAGGAAAAGT CACAGAGTTT 240
 AAAGAGANGC AAATTAANCA TCCTGANTCG GGNACANAGG GTTTTATCTA ANANNNGGTN 300
 GNNNGTGN 308

SEQ ID NO:5764

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06839

SEQUENCE DESCRIPTION:

GATCATAAAT ATTAATAATN AAAACTGAGA AACTATTAC AATGCATTCC TTATAAATAA 60
 ATGCTACATT TAGTAACTCA TTTCACCCAA A 91

SEQ ID NO:5765

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06840

SEQUENCE DESCRIPTION:

GATCAGCACA AGTAACAGAA AATNAGCCTG ACGGTGGCTT AAGCAATGGG AATGTTTATC 60
 TCACATAGCA AAAAGTCTGT AAATAGATGG TTCTAGAGTT GGGTGGAAGC CAAAATGTCA 120
 TCAGGATTTT CTGGAACCG TCTGCTTTC CATCCTCAGT ATTGCAGAAT GGCTGCTCCT 180
 GCGCCAAGCA TCATTCTGCA AATNATGGTG TCCACAGCCA GAGTGGACAG TAGTACAGGN 240
 GCCTTCTCAT TCTGCCCTTA TCCGGGANTA ACCGTCAGCN GCTCCAGCAA CCTNCCCCCT 300
 GTCTNTTAT AGNGTGGGNN 320

SEQ ID-NO:5766

2153480

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06841

SEQUENCE DESCRIPTION:

GATCCCACTC TGATTGCATC CATTCTCTG AAAGACTTGT TTGTNCTGCT TCTCTTCATA 60
 TAACTGAGCT GGCCTTATCC TTGGCATCCC CCTAAACAAA CAAGAGGTGA CCACCTTATT 120
 GTGAGGTTCC ATCCAGCCAA GTTTATGTGG CCTATTGTCT CAGGACTCTC ATCACTCAGA 180
 AGNCTGCCTC TGATTTACCC TACAGCTTCA GGCCCACTG CCCCCCAGTC TTTGGGTGGT 240
 GCTGTTCTTT TCTGGTGGAT TTAATGCTGA CTCACTGGTA CAAACAGCTG TTGANGCTCA 300
 GAGCTGGAGG TGAGCTTCNN 320

SEQ ID NO:5767

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06842

SEQUENCE DESCRIPTION:

GATCCAGTGA CAATNTGCCC CCTGCCAGCC TGNGTGTCGT CACTCATCAT TCATTCATCC 60
 ATNCTAGAGC CAGGTCTCTG CNTCCCAGAC GCGGCGGGNG CAATGCTCCT N 111

SEQ ID NO:5768

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06843

SEQUENCE DESCRIPTION:

GATCATTCTC TCTGAGGGCA GNTGNGGCGC AGGNAATAG TCTTGGAAT GTTAAATATG 60
 ATGGGTAAAT TAAAAGTTTT ACAACATTCT ACCTAATATT TTNCTTTTAA CATACTTTTT 120
 CTGTTCTATT GTATTATGGT GTCCGAAAGC TAAATAACGN CTAGGNAAAA TTTTTTTAAA 180
 AAAAGNAAAA TCAGTTTAAT GTGGGNAGTA CTTAAGTGGT ATTATATTN NCATTTTCAC 240
 GTATAGTGCA TANAGN 256

SEQ ID NO:5769

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06844

SEQUENCE DESCRIPTION:

GATCGTGTTC ACAGAGGACT TCTTTAAAGT GTCACATTTT TAAATGTAA ACATATTTTT 60
 AATGCATACT TAAGTAATAT TTAAGAACT AAACAAAATA ATGATACANT TGCAGTGTG 120
 TGCTTGTGT CAATGACAAA AATAAAACCA TTTTGGTGGT AAA 163

SEQ ID NO:5770

LENGTH:253

01710

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06845

SEQUENCE DESCRIPTION:

GATCTCCAAG AAGTGACTCT AGCAGAAGAT TTTATGGTGA TAAGCATNCC AATCANGAAA 60
TGAAACCAGT GTTCTGAGT GCACACTGAC ATGTCTGTGA ATATGTTACT GAACCTATAG 120
TCCAGTTTTT TNATNTCTTG TTTTAGTCTG AAATNATTG GGCCTAATA ATCCTAAAN 180
GAATGGAGCT GCATTGATGA ATTGGCTCAG TATTTAANGG GAGCAAACCT NTNGATAATA 240
NNTCTTTTNA GGN 253

SEQ ID NO:5771

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06846

SEQUENCE DESCRIPTION:

GATCTGAAAT ACTGACAGNG TTCCCCAAAG TTAGATATTA ACACAGCTTT TNACNTCTCT 60
TATGAGAACT TTAGTGATAA TATACCTTTA TCATAGAAAT GAGATATCCA ATACCTNATG 120
GNGACTACAA AAAGGNN 137

SEQ ID NO:5772

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06848

SEQUENCE DESCRIPTION:

GATCCCAGAG TTCAGCCAGC CTGGGGTCCA GAACTCAAGA GTCCGCCTGC TTGGAGCTGG 60
ACCCAGCGGC CCANAGTCTA GCCAGCTTGG CTCCAATAGG AGCTCAGTGG CCCTAAGNAG 120
ATGGGCCTGG GGTGGGGGCT TATNAGTTGG TGCTAGAGCC AGGGCCATCT GGAATATGCT 180
CCATCCCAAG GGCCAAGGT CAGGGGCCGG GTCCACTCTT TCCCTAGGCT GAGCACCTCT 240
AGGCCCTCTA GGTGGGGGAA GNAAACTGGA ACCCATGGCA ATAATAGGAG GGTGTCCAGG 300
CTTGGGNCCC TNCCTGGTN CTCCNAGTGT TTTGNTNGGG TAATAANTTG GANCTATGGG 360
CTCTNAATTG N 371

SEQ ID NO:5773

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06850

SEQUENCE DESCRIPTION:

GATCGCACAC TACGCTCCAG CCTAGGTGAC AGAGTGAGAC TCCATCTCAA CAACAACAAC 60
AACAAAAAAC CAAAAAACT ATATTTTAA TCATGTTGG TAGCTTGAAT ANTAAATNCT 120
TTCTGCCTAA A 131

SEQ ID NO:5774

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06851

SEQUENCE DESCRIPTION:

GATCTGGAAA ANCTGCTGAC AGAGTGGCCA GACACAATAC CACTGTCTTT GGCTCTGGGG 60
NCAGTTGGCA TGCCAGGCCT GACTGCCTAC TTTGGCCTAC TTNAATCTG TGGTGTNAAG 120
GGTGGAGAAA CAGTGATGGT TAATGCAGCA GCTGGAGCTG TGGGCTCAGT CGTGGGGCAG 180
ATTGCAAAGC TCAAGGNCCTG CAAAGTTNTT GGNGCAGTAG GGTCTNNTGN AAAGGNTGCC 240
TACCTTNAAG AGGN 254

SEQ ID NO:5775

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06852

SEQUENCE DESCRIPTION:

GATCCTGGTG CTATGGTTTG AATGTCCCCA CAAAACTCA TGTGAAATT GAATTGCCAT 60
TGTTTAACAG TATAAGGGGT GACTGGGCCA TGTGAGCTCT GCTCTCATGA ATGGATTAAT 120
GCCATTGTCA TGGAGTAGGT TAGTTTTCTC TGGCGTGGGC TCCTGGCAAA AGGATGAGTT 180
CTGCTGCCAT GCTGTCTGTN TCATGCACTT GCTCACCATG TGAGCCTTCT GCNTCACACA 240
GGATGACCCT CACCAGATAC TTGCACCATG CTCTNGGGAC TTTCCCAAGT NTCCAGAGCN 300
GTGAGCCAAA TNACTNGCT NTNCTTTATA AAANANAAAN ANAGTN 346

SEQ ID NO:5776

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06854

SEQUENCE DESCRIPTION:

GATCCAGGGT GNCTAAAGAA TAGAAGTAGA GTTCCACCCA GGGCCAGAGG GAACAATCTG 60
GGATTCAGAC ACAGCAGTGG TGCCAACGTG AATCTACCTC GTNCTAGAGT CTGAGTAGCC 120
TAGTCTATCA CCCAACACAG ATAAGACTGG ACAGGGGCTC CCAGGAACCA ACATCTAAGN 180
GGGGAGTTTG GAGAGGGGCT AAAAGAAAGC AGGTTAAGCC CCAANTGTAA CTGATTGATG 240
ACCAGGGATA ACTATTTACT AGTGCTTTTN TGGNTTTATT GTAACCTCTGT NACTTTCCA 300
GTATTTGTNA ATNTTNNNC TTCTGNNTCT CCTGTN 336

SEQ ID NO:5777

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06855

SEQUENCE DESCRIPTION:

GATCTATTTA GGTGGAAATA GTTGTGGATG TACTAAGAGT AATGAAATAA AATTATAGCT 60
TCAAA 65

SEQ ID NO:5778

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06856

SEQUENCE DESCRIPTION:

GATCTTGNGA CGAACTGAGC CACGAGCGTG GCTTTAAGGG CCGTCCGAAC GCTGCAGGCC 60
GGCCAGGTCC CTGGGCGTCC AGGCCTGGCC TACGCACCAC TTTNTCCCTT AGCGTTTAAA 120
GGNNNNN 127

SEQ ID NO:5779

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06857

SEQUENCE DESCRIPTION:

GATCCTATGT GAAAAGAAAA GTGAAGCAAC TGAATCTTCA GCATGTNCTC ATCGGCGGAC 60
CTTCTTGTGT AATGTAAACT GTGCCATGTT ATTAAAAAAT GTGAACTAAG CTTCCAAA 118

SEQ ID NO:5780

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06858

SEQUENCE DESCRIPTION:

GATCTAGTAT AAACCTCACT TTACTCTTTT GGAATAAAGT GATTGGNTAG GACCCCATTG 60
CCAGGAATAA GANTCAATAT GCTGCTGAGA AGGAACCCAT GGTGTTGANG ATGTTGAAAA 120
GACANCACAG TCAGTAACGT GGAGAAATGG CCTGGNTTCA ANTCTTGGCT CTGACACTTG 180
GTAGGTATGA GACCTTGGAG ANGTTTCTGN NCCTCTCCAT GCTTCATTTT TNTGANGGTT 240
TATTGTGTGG TTTAANTTN 259

SEQ ID NO:5781

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06859

SEQUENCE DESCRIPTION:

GATCCTNAGC GGAGGTTAAG ATATTAAGTN ATTTCCCAT A TGAATCAGAA TTATATTGAT 60
TCTGTGCAAT CAAAACAAAA GGCAGANTAG AATGCTGAGA TTGGTTAAGT TTGCAATNAC 120
CATCTTGAAC CACAGATTTT CTCTATGTGT CATCAAACA TCTAGTNNNG N 171

SEQ ID NO:5782

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06863

SEQUENCE DESCRIPTION:

GATCCTCAGA CCCTGCACAG CCCTGANTGG CTTACATCT NTTGGTCAGT GTCTTCATTG 60
TCCCCAGTCA GGGACCTNGG ATGTTTGTTA CTNCCAGAAG CCCTTNTCTCA CCCN 114

SEQ ID NO:5783

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06864

SEQUENCE DESCRIPTION:

GATCACACTG TGAAGATACA CAGAGTCAAT AAATGTGCAC TGTAATGGAC TTAAA 55

SEQ ID NO:5784

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06865

SEQUENCE DESCRIPTION:

GATCCTGGAG AGCTCCCAGA CTTTGCTCAG CGTTCTCANG AGGNAAGCTG GGAACCTGAC 60
CAAGGCTACA GCCCCAGACC AGAAAAGTAG CGGCGGCAGG GACAGCTGAC CAGACCACGG 120
GCAGGGCCTG CNTCCNTNTG CCCCTCAGCT CAGCCCCAGC AAGTGTGTGC TCAGAGCATC 180
TTTGTCTTC ACGGTAGCAG CTACCTTCCC TCACTGTCTC AGGTGCCGAG AGGGGCAGGT 240
GCCAGCCTNC ACTGGCATCA NTGACAAGNC CANGGCANGN NCCACCNGNG GGGTCCTN 298

SEQ ID NO:5785

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06866

SEQUENCE DESCRIPTION:

GATCAATTGA TTGTTTAAAC ATGGAATTTT GAGAAATATT TGGGTAGAAA AAAAAGTAGT 60
TTTAAAGAN GAGAATCCAA CCATTAAAC ATCAAAANNT GANATTNTTT GTAAATN 117

SEQ ID NO:5786

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06869

SEQUENCE DESCRIPTION:

GATCAGCATG TGGACTGCAC TGTTTACTTT TGGTTGGACT GGGACAATTT GGGGAATATC 60
TACTATGTTT ATTCTTCAAG AACCCATCAT CCCATTAGAT GGAGAAACCT GGAGTTATCT 120
CATTGCTATA TGTGTCTGTC CTAATGCAGC ATTCTTAGGA GTTTATTATG CCTTGGNCAA 180
ATTCCATCCA GCTTTGGTTA GCACAGTACA ACATTTGGAG ATTGTGGTAG CTATGGTCTT 240

GCAGCTTCN GTGCTGCACA TATTCCTAG CATCTATGAT GTTTTGGAG GGGTAATCAT 300
TATGATTAGT GTTTTNTCC TTGCTGGCTA TAACTTTAC TGGAGGAATT TAAGAAGN 358

SEQ ID NO:5787

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06870

SEQUENCE DESCRIPTION:

GATCTATGGG TAATTTTAAA TTTGCCTGT CAAGCTTAAN AGGGACTGA CAACAGCTAG 60
GATNGAAATN ATTTCAACAC TTAAATATGC TTACTTTGTG CCGGACGCTG TTCTAAGNCT 120
TTNACAAN 128

SEQ ID NO:5788

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06871

SEQUENCE DESCRIPTION:

GATCCACCTA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC AGTGCCCGGC 60
CTGTATTTGG TGATATTTTA AAAAATTCTA CTTTGACCTT AAGTGCTTCA AGAATTGTGT 120
TCAGTTAGTA GTCCTNTTGG TAAGACTAAC TTTCATATGC TATCTTTGCT CCATGAGCTA 180
TCATAGTGCT GTTTTCTTTC ATTACCCGTA AGAGTGGCTC TATCACAGCA TTTACTGTTA 240
AGGGCTACAG TTAGACCTCT TGTAACTCT ACTTTNATTT GTGATGGCTG TGTTTCACAC 300
TACCTTGATT TATAAATGTA NGTAATGTNG TTAAATNGN 339

SEQ ID NO:5789

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06872

SEQUENCE DESCRIPTION:

GATCCTNTGT ATAACATCGG GGCCTTGCTC AGGGGCTGTT GCGTGGTTGC CCTGCATTCT 60
CTCCGNCGCA CCGCCTTCCG TATCAAAACC TAAATAGAAG TTGTTGTTAC CGTGTGCCAA 120
TGTGTCCCAT GTGGTTGTG CCAGGTAGAG AAACAGGAAG TCAATCATCT GTNACAGTCT 180
CTATTCTGTC GTTTTGCTCC TTGGTATTN ATTTGCACTA TATTNAGGTG AAGCCTGTTC 240
ACTGTTTAAA NCCGGAGTNT TCTTCAAANG GCATGGNGAC CTGGTTCCAG TAAATGTCCC 300
ANCAGTGGGG GTTTTAGAAN GCATNNTTCA NTGACCNTNG NAN 343

SEQ ID NO:5790

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06873

SEQUENCE DESCRIPTION:

GATCATTATG TAGTTTCTGG ATTAAAAAAA TTTGTGTGTG AAGTTGCTTT GTAAAGTGCA 60
 TGTGGAATTA ATGGGACAGT GTGCCCTTTG TGTTAGATGT TAGAGCAAAA GAAAGGGCTT 120
 ATAGTGTTAG TATTGGAGCA CTTGAAGAT AGATATTNC AGAAAAGATG TAGGATTAA 180
 NAGTTAAATT TTAANTTTTA GAANANGATA TGATGGCAAT TGGNAATAGT CACAATGNNG 240
 TTCTTCATCC AGTNGGTGTT TAACCAGTGT TNATTTTGCC NCTGGTAATG TGGTNACCTG 300
 TGNGTGNTTT CCANTAGATG NGTTATGGGN 330

SEQ ID NO:5791

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06874

SEQUENCE DESCRIPTION:

GATCACCACA AAGTCTGGCT CAGTGACTAT GGCTTTGCAA AACTAAACA TTCCTGTCTC 60
 AAGTCCTGTA GATGGCTTGA AATAGTATAC ATAAGCATGC CTTATAACA TCTTCAGTCT 120
 TTATCAACTC TTTGGAGATT CAGCCATTCT TTTTGTACT TTAGGGAATT AAATCANNNN 180
 ATAATGTATA AATCTGAGCA TGGCCGATGG CAGAAGANAT TTTGTCATAC GTTTTAAAG 240
 ANNTAAGANT GTATTATGTT TAAA 265

SEQ ID NO:5792

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06875

SEQUENCE DESCRIPTION:

GATCAGAAAC CCTCATTAA TATAGATTAT TTTGGAAATN AAAAAATTG TAACAAGGTG 60
 GCTTCTTAC CCACCCTAAA ATGTAAATAA AACATGCAAG CTTAGCTGC TCGAGTTCTA 120
 TAGTGTACC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATGCCCT GTAGCCGTTN 180
 NNNNTNTNT N 191

SEQ ID NO:5793

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06876

SEQUENCE DESCRIPTION:

GATCTTGTCT TTATCTACTT TCTTCAGTAA ACTCTGGAAG AAAAAACTT CCTGGAAGTT 60
 TGGGCAATCA TTGCCATTA TTNCCTTTC CTTGAATTC TTGATATCAT GAATACTGCT 120
 GTAGTATGGG ACATTATGTA TTTNGGTAAG CAGACTTCTC TNCTGTATTT GTNTTNGTT 180
 AAACAGAATG ACAAGTTCCT TAAA 204

SEQ ID NO:5794

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06878

SEQUENCE DESCRIPTION:

GATCCACCC CAGGCCTTGC CCCTGCCCTC CCACGAATGG TTAATATATA TGTAGATATA 60
 TATTNAGCA GTGACATTCC CAGAGAGCCC CAGAGCTCTC AAGCTCCTN NTGTCAGGNT 120
 GGGGGGTTCA GCCTGTCCTG TCACCTCTNA GGTGCCTGCT GGCATNCTCT CCCNCATGCT 180
 TACTAATACA TNCCTTCCC CATAGCCATC AAAACTGGAC CAACTGGNCN NTTCTN 237

SEQ ID NO:5795

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06879

SEQUENCE DESCRIPTION:

GATCAAAAGC CAAGCTCTGT CCCCCTCAGC ACGTCACCCT CCCTCACTGT AATCCCTGAC 60
 TGTTTTCTCT AAATGAAGAA TTATTTAGAG AATATAANTT AGAAGGGCCG CCACGTCAGA 120
 TTTGCCTGAN TGGGAGCAGT CTTTCAGCC TCGAAAAATG TTAAANCAAT ATGCAGATGA 180
 CCTAGCACAA ATAANGANTG CTAGCAACCG CAAA 214

SEQ ID NO:5796

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06880

SEQUENCE DESCRIPTION:

GATCAAGTGA TACTAGGAAT ATAGGTACAA GTAAGACTGT CATTNCAAT GTTTCTCTT 60
 TGGACTGATT CTTTNCATTA TAACAGCGTT GTGAAGTAGA GGTGGGATTA GGAACNTCT 120
 GCTGTAATCA ACTCCCTNGC TGCCCAAACA CCAGCCTNAT ACACAACACC ANCAGGTCCN 180
 GCNTNGN 187

SEQ ID NO:5797

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06882

SEQUENCE DESCRIPTION:

GATCTTTNAG TGCTTTGGGG ATGGGGTGGG CTGGGGTGGA TGGATGGGCA ACAGTGACTT 60
 TAATTACCCT TGCTGCTCTG CATTNCCAG TTTATNCTTT TGTTCCTTT ATCTGACTGA 120
 CTCTGTCAAA CAAGTGTCAA AGTTGTGTGT TAAAAAATGT TTAACAAAA ANNTGTTGTA 180
 ATGACACAAA GCCTTATGAN ANTNTTATG GAGTTCAATA AAAGANGTAA GAGGTCAANC 240
 CNNAGGN 247

SEQ ID NO:5798

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06883

SEQUENCE DESCRIPTION:

GATCTTCCCA ATATGAACAA ATATACTATG TATATNGTGT GTATTCTAG AAATCAATGG 60
CAGCTGCTGA TGGNGTTGTA ATTAGAANTC TATATAGNNT ATAGAN 106

SEQ ID NO:5799

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06884

SEQUENCE DESCRIPTION:

GATCAGGACC TACGTTAAGG TGGATTTTNA ATTATTTAAA ATTCTGATTT TGTITTATTT 60
TTAATTAATC TTTGGGGGAA GGATGGGAGG GGGGTGAGGG TTGAAGAAGT AACATTGTA 120
CCTATTGGAT ACAATGTTTA ATATTGTGT GATGGGCACA CTGGAAGCCC AACCTCACT 180
ATTACACAGT ACATTCATGT AACAAGCCTG CAAA 214

SEQ ID NO:5800

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06885

SEQUENCE DESCRIPTION:

GATCCTTAAT GGTGGCCAGA GCTACCATGC AGTGCAAAAA TAAATTAAGT GAAAATGTAT 60
TATTGAGATT AACAGTGCAA GGCCAATACA TTTTATAAAT CTGTCAGTAT CTTTTTAAA 119

SEQ ID NO:5801

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06886

SEQUENCE DESCRIPTION:

GATCCTCAGT GAAGTGCATT CGGAATGAGG ATGGAAGTGT GTTAACACCA AATGAATTTG 60
AAGTCGAAGG AAAAGGAAGG AACGCAAAGA ACTGGAAACG GAATATACGT TGTGAAGGAA 120
CGACCCTAGG AGAGCTGCTN AAGAGTGGAC TTTTGCTCTG TCCTCCAAGA NTAANTCTCA 180
AGAGAGAGTT AAATAGCAAG TGAATTTCTA CTACCCTCTC AGTCACCATG TTGCAGACTT 240
TCCCTGTCTG GAGGCTCACC TTAGAGCTTC TGAAGTTTCC AAGCTCTGAG GTCAACCTNC 300
ACATTTTGGG CAATGGCATC TTCAAAAACA ATTAATTTN 339

SEQ ID NO:5802

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06888

SEQUENCE DESCRIPTION:

GATCTCCAAG CGAACTCAGC CTCCTCCCAA GCTCCCTGTG GGTCCCTAGCC ACAAGCTCTC 60

CAACAATTAC TATTGCACTC GCGATGGCCG NCGGGAATCT GTGCCCCCTT GCATCATCAT 120
 GTCGTCGCAG AAGGCGCTGG TGTCAAGCAA GCCAGCAGAG AGCTCTGCTG TAGCTGCCAC 180
 TGAGAAGAAG GCGGTGACTC CAGCTCCTNC CATAAAGAGG TGGGAGCTGT CCTCGGACCA 240
 GCCTTACCTG TGACATTNCA CCNTNACGNC CACCCGNCTA CTTTTGCCTN CTTTGGATTT 300
 NCTTCAGGGN GAATNTTGAC CTAATTGTAT GACAATTAC GTAGGGGCTC AGGTATTCAC 360
 TTCTGAGGTN TTAATTTTGG N 381

SEQ ID NO:5803

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06889

SEQUENCE DESCRIPTION:

GATCTACACA TGTTGCCTTG CATTTGTGGT AATCTACACC AATGGAAACA TGTACTACAG 60
 CTATATTGA TTATGTATGG ATATATTGA AATAGTATAC ATTGTCTTGA TGTTTTCTCT 120
 GTAATGTAAA TAAACTATTT ATATCAGAAA 150

SEQ ID NO:5804

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06890

SEQUENCE DESCRIPTION:

GATCCTAAGC AAAATCGGAG ACTTGAACAA AGTTTGTTTC TGGCTGTNTG CCCTTCCATT 60
 TTCTGTTCTC TTCTTTCTCC CTGGAGATGA NAGAACACAG AATCANATTN CCAACCTCTC 120
 TCTCCNATGN ACTCTCTCAT CCCCCAGCCC AGCCACATTT ACACATAGGG CAGACACATC 180
 TCACACAAAG GAAGTACCCC TAAAGACCTC ACATAAATAA AACTAGCAA ANTTCAAGTT 240
 GNNCTTGGC AAANGTAGTN NTGGGTATGT NAGTCN 276

SEQ ID NO:5805

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06891

SEQUENCE DESCRIPTION:

GATCANGTTC NGGGCTCTNT CAGCCGCCAC CTCTGGGAAA GAGAAAAGNT TTGGGTCCAC 60
 TGAACATCAT GTTTGTAGAC GCTGACAGGT GGGGTCCTAA TNAGAGCCAA CACATGCTCA 120
 CTGCCAGCNC CTGCCCTGAG TACTGGGAAG TTTCTCCTGG AAGCCCTTGT GAGATGGCTC 180
 NGNNGGCTGG TATCCCGACT TGGAAGATGA GGAAACTNN 219

SEQ ID NO:5806

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06893

SEQUENCE DESCRIPTION:

GATCAGTTTT NTGCTGAAGG CACCTACTCA GTATCTTTTC CTCTTTATCA CTCTGCATTG 60
GTGAATTTAN TCCTCTCCTT TGTGTTCAAC TTTGTNTGC TTTTAAATC AGCTTTATTC 120
TAAGCAAATC TGTGTCTACT TTAAAAACT GGAAATGGAA AAAAAATTAA ATCTNNGCCA 180
GGTCCTTCAA A 191

SEQ ID NO:5807

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06894

SEQUENCE DESCRIPTION:

GATCTGCAGC TTCGCGGGGA CAGAGATGTA ACCCAACTCG TTCACGGATG TNCCGCGCGC 60
CGTGTACCG GCTGCGGGCC AGGGGTACTC GGAAGGCGCG GGCAGGAGCC TNGCGAGGAT 120
GCACCTTCCC CTGCNTTGA AAGGTAGAAC TGGGGAGTGC GGGAGGNTGA AGGTGGCCCC 180
GAAAAGAACA CCTNTTCGA ACCAAA 206

SEQ ID NO:5808

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06895

SEQUENCE DESCRIPTION:

GATCTAAATA TGTATTCAT AATNTTCCCA TAATAAATTA TATAAGGTGG CTAAA 55

SEQ ID NO:5809

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06896

SEQUENCE DESCRIPTION:

GATCTGGTTT NATTCCTGTA ATTCAGCCAC CTGATTGCT TGAGGGGGNG GNATANTATG 60
TGGGTTTTTG TACAAACATG TTTCTCAGTG TGTTGTTATT TTGGAAAAA TGAGGGGAGG 120
GAGTTTTGCA AGAATGNGAG AAAATGANTG AAGAAGGCCT AATCNTCTCT CTTTTCCAG 180
TGGATTNAAT GGGNCCN 197

SEQ ID NO:5810

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06897

SEQUENCE DESCRIPTION:

GATCCAATGA TTAAATTTT GGGAAGAAAA ATCCAGTGAT TAAAGTCATG CAAGGAGATG 60
GCCTGGGGCT TGCTAAAAGT CAGGTTGCAG TTTCCATTGC ATTCAAGAAA ATCAGAAAA 120
TAAATACAAC TTTTAGAAGA AACTGAGTTT TCTCCATTCT ATGTTTAGCT ATTGGGGGGT 180

CTCATACTTC TGGACTTGCT TAGACCTATG CTATCTAATA TGGTNGCCTC TGCCCATCCA 240
TATGTGGCCA CTTGGGAAGT TGGAAATGTN ACTAGTTTGT AATTAAGGTG TGCTNGTAAC 300
TAAATNCAC CCTGNGGTNT CAAAGGCTNN AATAANGNA NGGN 344

SEQ ID NO:5811

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06898

SEQUENCE DESCRIPTION:

GATCTATCTC CCTGTTAGGT GTNCTTTTTC TCCTCTTTAG AAAGNAGCCA AGGNAACCAG 60
GGTCTCTCA AAGTGAAAA TACTGGAAGT NATGTACTGN TATCATAATG N 111

SEQ ID NO:5812

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06899

SEQUENCE DESCRIPTION:

GATCCATTGC TTTAGACAG GACTGGGTTT TGCTGTCCAA TGATATACAN TAATAGTNCT 60
TCTTACAGCT AAGCTGGCCC CAGCCTTGTC TTGATATTAA TACATGAANT NTTTATAATT 120
GTCTCATTGT CTCATTTAGA AACATCCANA TNTTCTGCT GTGNCTATN 169

SEQ ID NO:5813

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06900

SEQUENCE DESCRIPTION:

GATCAGTAAC TTTATCTCTA TCCTTAATGA ACATTTGTTT TATTGGTGGC TGAAATATT 60
TCTATTGTAT TTCTGTGTAT ATNNTNAATA AAATAATTTT TGGCCTCTNA AA 112

SEQ ID NO:5814

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06901

SEQUENCE DESCRIPTION:

GATCAGCAGC TCGGAAGACT CAGATGCCGA AAACCTCGTCC TCCCAGAGGC TGGATGACAG 60
CAGCAGTGAG TCCAGTGACC TCCANCTGGA AGGCCCCANC ACCCTCAGGG TCCTTTGACG 120
AGAACCTTGC TGACCCCCAA GCAGNAGACA GACCTCTGGT TTNNTTTGAC CTCAAGATNG 180
ACAAATGAAAG TGGGTTCTCC TGGGGCTACC NNNACCCNTT TCTAATTTAG TCTCTNGAGT 240
CCCAAAAAGA AGTNCAGGCA GAGCCATCTN N 271

SEQ ID NO:5815

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06902

SEQUENCE DESCRIPTION:

```
GATCATGAAA AGAAAAATNA ATGGCAGGAA AAAAGTTTGG TCCTTAATAT ACTTTGGCCT 60
AGTNAAAATA TGTGCCTTTT TGGTGTGTTT TGTTTCATCAC TACAAGATAA AAAGGAAACA 120
TTACANCTCA AGGCTTTAAA AAGTTCATTT ATTGAAAATC ATATGTATAG CCTAGCATAC 180
GAATGTGCAG TTTTAAACAC ATAGCTTCAA GCCATTCTCG NAAGCATNCA CCGGGNGCTC 240
TGCTCAGNTA GAGTCAGNCT CCNNGCTCCA GNCCGACTGC GTGCGGGGGA CCAGCGGCCG 300
CGTTNNATGG NGGGNCN 317
```

SEQ ID NO:5816

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06903

SEQUENCE DESCRIPTION:

```
GATCTAGGAG AGGCGGCTCT GAACGAGTAC CTGCGGGTCA AGACAGTGAC CTTCCGATTAC 60
TGAAGAAAGG TCTTTNTGAG AAGAAAGTCC CTGCCCCTCC CTCGTGGCTG GGGTCCCCTC 120
CCTCTTGAGC CTNGGTGCAC AGCANCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCC 180
TGCACACCAT GTCTGCATCT TGGACGNCCT CTGTCCAGTC AGAAGCAGCC CTTGGNTNNG 240
GGTGAGNTGT GNCCCTTCCA GGGGGAATAA AGCTTCTGAA GAGAGACCGT CAAA 294
```

SEQ ID NO:5817

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06904

SEQUENCE DESCRIPTION:

```
GATCAAAATC AATGGGAAGG TGCTGCCAAG GTGTCCTAAG CTTCTAGGAT AATATTNATN 60
CTCTCAGGGT TTTGGAACTG CTGCCCCAAG TCATAGTTCT CAGTCCTGGG TGTGAGTCAG 120
ANTCACCTGT GGAGCCTGGC AAACCTTACA GACACCCTGG CTCCAGCCCT GGAGATTTTN 180
ATTTANTGGA AATATCACTT AGAATTCTAT TGTAAGCAAT AAAAGTNTAT TCTCACTAAA 240
CTTTCAAAAA NTNGNGNTGN NNN 263
```

SEQ ID NO:5818

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06906

SEQUENCE DESCRIPTION:

```
GATCTTTCCC NTTTGGATGT GCGTGTGTGT CTGCNTGTGC CATGTGCGTG GCACGCATAT 60
GAAGTGTGTG TGCGTGTGAA CGGCTTTGGG TCCTGTGTTT TTNCTGTGA GCTNCAGTGT 120
TCTGTGGGTC TGTGGTATCT NACACTGTGG NCATTAATGT ACTTCTTGGA CATTTAATA 180
```

AATTTTNA CAGTTCAAA

199

SEQ ID NO:5819

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06909

SEQUENCE DESCRIPTION:

GATCANAAAA CCTAAANTCC ATAGGNACCC NAAATCCTCA CAGTTACAGA GACACCAAGA 60
AGANTCTGGA CAAATAGGAC TTGCTAAGGC CTCCACAGTT TATN 104

SEQ ID NO:5820

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06910

SEQUENCE DESCRIPTION:

GATCGAACGG ACTNTAAATC CGCTCTTTAT CGAAAGCTAA GCAAGCTGTG GCTTTTTTCC 60
AACTCCGTGT AACGATTCTA AGTGTAGTGT NGTAGGACCC CGACGGGTNT GGCAGCAACT 120
GCCCTGGAGC CCCAGCCCT GCTTCCATCT NTNCTGTGCG CCCACAGTA GACGTGCAGA 180
CGTCCCTAAG AAGGTTCTTN AAGATGTTTA TTTTATATAG TCCTNTTTA CTGGAAGACG 240
TACGNATACT CCATCGATGT TGTATTTGGN GGGGGGTGNG GAATCTTGT ACGCAGTTT 300
CNTTNGCTT TACGAAGCCG GTNAANNGAC CGTTTTGAAN TAN 343

SEQ ID NO:5821

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06911

SEQUENCE DESCRIPTION:

GATCACTTGA GCCCAGGAGT TCAAGACCAG CCTGGGCAAC ATGGCTAATN AACACTAAGC 60
ATAGTTTAA TGTCTTTNAT ATTAAAGACT TTCTCAAATT CTAAA 106

SEQ ID NO:5822

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06912

SEQUENCE DESCRIPTION:

GATCCATTCC AGCCACTCGG GGCTGACAGC GGCGACCCGT TCCAAAGTAA AAAGGGGTTT 60
GGGGACCCGT TTAGTGAAAA AGACCCATTT GTCCCTCTCT CTGCAGCTAA ACCTTCTAAG 120
GCCTCTGCCT CGGGCTTTGC AGACTTCACC TCTGTAAGTT GAGTCCTCG NCTCCGGGCC 180
ACCCCACTCC CTTCCGCTTG CAGTTCCCT GGGATTTTNG TNTCCTTTA AAGGCAAACC 240
TCCCAGCTTC TTTAGCTCT TGGTACCTNA CACTCTCTGT CCNTCGCGTT ATTNATTCTA 300
CACTGCCACT TCTGTAAGAA AAACAGTTTN TCAATAAAAA AAANAGNTGN 350

SEQ ID NO:5823

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06913

SEQUENCE DESCRIPTION:

GATCTCGTCT CTAAATAAAA TATACAAAAG AGTATTGGGA GGGGGTATGA AGAATGTATA 60
GGGCAATAAT TGAATCTGT TGAAGCTGGG TACACAAAAG TNCATTATGT TGTTTCTCTA 120
CATTATATC TATTNTNAGT NNTTTNATAT CTATTTTNAN TTN 163

SEQ ID NO:5824

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06915

SEQUENCE DESCRIPTION:

GATCAGTGGT TTCCATTGTC AGGACTGGGC ATGGGGAAAGT NTGGCTGTAC AAGAGGAGCC 60
CAAGGGAACCT CCTGGTGGT GATGGAACCTG CTCTGTATCT CAAATGTCTG TATCTTTAGA 120
AAGAANTCTA CATATGTNAT AACACTGCAT AGAAATATAT ACATGTACAC ACAAGTGAAA 180

SEQ ID NO:5825

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06916

SEQUENCE DESCRIPTION:

GATCAGTGAA ATCCTAGGGT GCTCTATGAG ATTGTACTAG GCCTATNAAG AGTGGTAAGC 60
CAAATAGGTC TCCATGGGAG ATACATTATG TAAATAAATA AACAATGGTT TGCTGGTTCC 120
TGTTGGTGTC TCCACAAGTA GGTAANCATG TTAAAGGAA CCCGGGTTCT TAGATTTTNT 180
NAGACTTTTT AANCTCAAGG CTGNGCATAA GTNCTTGAAN ATAAANTGCT AATNCTTAAG 240
TGTCAAA 247

SEQ ID NO:5826

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06917

SEQUENCE DESCRIPTION:

GATCAAGAAT TGCAAAAATG GAAAAAATTA ATGAAAAGGC ATCTGATAAA TGTGGACGGC 60
TCCAAATCAT GTCCTTAGAA AATCTTTCTA TTGAAAAGGA GACTAAATTG TAATGTGATT 120
CACAATGTAA CAATATAANN CTNNGTTTTT NTATAATTNT NTAANAGTN 169

SEQ ID NO:5827

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06919

SEQUENCE DESCRIPTION:

```
GATCACCTCC GGGCACAGGA TCGAGGAAC TGTTGACATT CAGGGATGTG ACCATAGAAT 60
TCTNTCTGGA GGAGTGGGAG TTTCTNAACC CTGCTCAGCA GAGTTTGTAT AGGAAAGTNA 120
TGCTAGAGAA CTACAGAAAC CTGGTCTCTN TGGGTCTTAC TGTTTCTAAG CCAGAACTGA 180
TTAGCCGTCT GGAGCAAAGA CAGGAGCCCT GGAATGTGAA GAGACATGAG ACCATAGCCT 240
GGGCGACAGA GCGAGACTCC GTNTCAAA 268
```

SEQ ID NO:5828

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06920

SEQUENCE DESCRIPTION:

```
GATCTGTGCC CAGAGACGGG ACTGGGAGGG CCCACTTCAG GGTTCCTCTC TCCCCTCTAA 60
GGCCGAAGAA GGGTCCTTCC CTCTCCCAA GACTTNGTGT CCTTCCCTC CACTCCTTCC 120
TGCCACCTGC TGCTGCTGCT GCTGCTAATC TTCANGGCA CTNCTTGCTG NCTTTAAGTC 180
GCTGAGGGAA AAATAAATGA CAAATTGCTT GNGNCAAA 219
```

SEQ ID NO:5829

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06922

SEQUENCE DESCRIPTION:

```
GATCATAAGT NCTTCTATCT GCTGAGCTTT ATTTATTNAT TTTGGACAGA AAGTTTGGTG 60
GGAAGGTTGC AATAAAATCA GAATCTCTCT TGTNTGAATT ATGCAGTTA ACCCTGTCCA 120
TGGNNGGCT GTACTCTATT CTNACTGTAT TTN 153
```

SEQ ID NO:5830

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06923

SEQUENCE DESCRIPTION:

```
GATCTTGTTT TNATTAAATA TGCCAGTTTG TATTNCCTG CCTTGGGATT TTTTGTGTC 60
CGCTGTACAG TATTCTAAGG GAAAAAGAAA AAGAAAGATG TGTAAGTAA CAGAGAGAGG 120
TGGCTATGGT GTAGAGACCT CTTCTAATA AAGAAATGAA AATATGTCTA AA 172
```

SEQ ID NO:5831

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06927

SEQUENCE DESCRIPTION:

GATCCCAGGG AAGACGTCTC TCTCNGCATC CCAAGCCATN CAGCCCTTAT CGCTGTACCC 60
AGTAAACCCT CAATAAATAT CTTTNTCAGC CAGAAA 96

SEQ ID NO:5832

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06928

SEQUENCE DESCRIPTION:

GATCACTGTA TTAATTTTGG TTTATCTTGG CATATATNGT TCAGTTTGTN TTTATTTTTA 60
ATTTNCCCTT TTTTCCGAT TAGGCTTTGG TCAGCATTTT NCATTTAAAG AAAAGTAACA 120
CTCCCATCCA CTCATAAGCT TGGTACAAA ACTTCTCTGG CAGTTACTTT TGAAGCTTCA 180
CTCTGCTTTC TGTATAAAGG GCAGTCTGTG GTCACGCAAG ACTTTAAA 228

SEQ ID NO:5833

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06929

SEQUENCE DESCRIPTION:

GATCTTTCTG CTTTCGAAGG TATANTGTAT CTATTTCTGT CAGGAATNAT ATTTCCAAAT 60
GAAAATGTAA AGAACATTGG GAAATAATAA ACTTTCCTTT CAAAGTAAA 109

SEQ ID NO:5834

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06930

SEQUENCE DESCRIPTION:

GATCTGTGTT TGGAAAGAAA AGAAGGAAAC TAAGACGTGC GAGGGNAAGA AAAAGGAAAA 60
CCTAATTAAA AAATATGTAT CCTCTATAAT NAGTTATNAC AGCCATTTGT AATGAATTTG 120
TCGCAAAGAC GTAATAAAAT TAACTGGTAG CACGGNCAAA 160

SEQ ID NO:5835

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06931

SEQUENCE DESCRIPTION:

GATCGACCGG CACCGTGTT GCCTCGTAAG CCATAGCGCA TCGCGCTCT CAGAATAAAC 60
AGGCCCTGCC TGGGAAA 77

SEQ ID NO:5836

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06932

SEQUENCE DESCRIPTION:

GATCANATAA CAGAAATGCAC CAGTCATCAG CTATTCAGTT GGTAAGCTTC CAGGAAAAAG 60
GACAGGCAGA AAGAGTTTNA NACCTGAATA GCTCCCANAT TTCAGTCTTT TCCTGTTTTT 120
GTAACTTTG GGTAAAA 137

SEQ ID NO:5837

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06933

SEQUENCE DESCRIPTION:

GATCCAGCTT CATTCAACAT TACTACCACT TATTTGATAA TNATAGAACC CAACTAGGCG 60
CAATTTACAT TGACGCGTCA TGCCTTACGT GGAAGGACA ACAGTTCCAG GGGAAAGCTG 120
CCATTGTGGA GAAGTTGTCT AGCCTTCCGT TCCAGAAAAT TCAGCACAGC ATCACCAGCGC 180
AGGACCATCA GCCCCTCCA GATAGCTGCA TCATCAGCAT GGTGTGGGC CAGCTTANGG 240
CGGNTGAAGA CCCCATCATG GGNNTNCGCC AGATGTTCTT ATTAAGAAGC ATCAACGATG 300
NTTGGGTTTG CACCAATGNC ATGGTTCAGG CTCGTCCTGC NCANNTTTGG CTGNCCTNCT 360
TTGCAGNTTG GGNACTNANG NTGTTTGCTT GCTGCCTTTT GN 402

SEQ ID NO:5838

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06934

SEQUENCE DESCRIPTION:

GATCTTCGTA ACGGCTCGG CACGCTCCAC ACCCTGGAG TCTCCGAGG CCCCCTGTG 60
CTGCTGAGTG GCCAAGATGA TGCCAGGCTG CCCTATACAC TGGGGGATTC TGCCCTGGCC 120
CATGCACACC CGTCTTTCCA TGATGGCAGA GACATCCAGT NAGGACCTGA CCCGTCTCTG 180
TCTGAGGCCG GCTCAGCAGT GCAGCCTGGT CCCTGGGGGC TGGACCCAGG CTCCTAAATA 240
AACCAGCAAC TNCCTCGNAA A 261

SEQ ID NO:5839

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06935

SEQUENCE DESCRIPTION:

GATCTCGGCT CACTGCAACC TCTGCCTCCC GAGTCCTGGT TCAAATATT CTCCTGCCTC 60
ANTCTCTGA GTAGCTGGGA CTACAGNNAC GAGCCACCAC ACCCTNCCCC CGNATCCCCT 120
GCCTCCATCC TAGTAAAGAC TCCTTGCTAT GCTGCAAA 158

SEQ ID NO:5840

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06936

SEQUENCE DESCRIPTION:

GATCAGTTTT GCCAAGGGGC CAGAATTATT CCTTGTTAGA ATTGCTCCAG TTCAAGTCTG 60
CTGCTTTCCT ACAGTTTTTC AAATTTTATA ATGTATTAAA TACAATAAAC TCTGTTTAAA 120
AAATAAA 127

SEQ ID NO:5841

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06937

SEQUENCE DESCRIPTION:

GATCAAAGAA AATTTATCTC TTTTATAAA CTAAAGGACA GTTGCAAAAG GCTTCAAGGA 60
ATTATCTCA ACATTATTCT TTCTATGTCC TAACTAAATT CCTCAACTGT NATGANTTTT 120
CCANCTACTT CTGAACAGT GGTCTATNCT GCTACATGAN GATGAATACA AACAANNTTN 180
TTGTATAACC TACTATNCCA GTNCTCCTGT GTCAGTCTTG CCTATGGATN TN 232

SEQ ID NO:5842

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06938

SEQUENCE DESCRIPTION:

GATCTCCAGN GCGCAGTGGG TTGGAGGAAG TACTACGTGA CAGCTGGGGG AGCCTAGCCC 60
TTGTNTGGGN ACTCACACAT CCACTCTAAC CCTTCTNACC ACAGGTCCGG CCGCCCCATT 120
AGCTTCATNG TGGTTTTTCAT CACCCCCAAC CCCCTGAGCA AGATTTCCTG GGTCAACAGG 180
TTACATTGG CCANAATCGG ACTCCGTGAG TATAGCCCCA GGGAGAGTGC CTNAGGGGGC 240
AGNGGTGTGG AACGNGNAGG TTTNNGGTGA GTNNGGTAC AGAATGTNGN 290

SEQ ID NO:5843

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06939

SEQUENCE DESCRIPTION:

GATCTTGTA CATTCTTCT CCTGGACAAT NAGTCTCAGG AGCTCCTCAC CAAGCACCTT 60
GTTACCCCCA CCCCTGCCCA CAAGAGAAAA CGCACGTAA CTGTAATTN TCCACTACCT 120
ACCCAAATCC TATAAACTG CCCCACCCCA TCTCCTTTTG CTGACTCCAG GTGATTAAAN 180
AACTATTGCT CAGGGAAA 198

SEQ ID NO:5844

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06941

SEQUENCE DESCRIPTION:

GATCTTTTT CTAACACATA TTTGAACTGA ATAACAGACT TAAAGAAAGC CTTTGTTTAC 60
 ATTGCTATTT ACTNNTGTGT TTGGGGGAAA ATACGAGGGA TTGATTTTAA ATAAAAACA 120
 TTCCNTCTTT CATTNAATAT CAGTATCAAA AGAGGNNGAC AAACATCTAT CTTTCTCATC 180
 TNTATTNAAG TNCCTTTTTG TANTGTAGTA TCAANGTTTT TTAGGTGNTG CAAGGTTTTA 240
 CAANTCATT GTGGN 255

SEQ ID NO:5845

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06942

SEQUENCE DESCRIPTION:

GATCCCTCAG AAGACTTAAC TTGGCTGGAG TGGGAGGAAC TGAAAATACC ACTCCATGGT 60
 ATACCATAT ATCCAAATCG TAGAGAACGA GAAGCTATGA TTTTATCATC TTATGCTGGA 120
 ATCTTAATGA ACAGTATCCC GATTGAGGAA GTCTTTAAAA TTTATGGGGC TGATTCTNCT 180
 GNCGATTCTG GTACCATCAA GTTTCCCCGA GTTTCATCTN TCCGNCTCTC CTTNCACCNC 240
 TNTTGCCATG TTAGCAGNAN CNANAGCAGC AGCATACGGC CGCAAACNGG GTGTCNAGTC 300
 AAGNANGGTT GCAGCAGN 318

SEQ ID NO:5846

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06943

SEQUENCE DESCRIPTION:

GATCGGAGGT TGGGTTCTCG ATTAACTTC ACTGTGTGTT TTCTATNTCG GAAA 54

SEQ ID NO:5847

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06945

SEQUENCE DESCRIPTION:

GATCAGAGAN TTACCACCCC TGCTTNGAAG CAGTGTGGT GTATCCCCAC TAAAATAAAC 60
 CAACTGGTAT AACATCCCT GGAGCTTAAT AAGCACTCAA TAAATATTG TNGANTAAAN 120
 ANAGAAAN 127

SEQ ID NO:5848

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06946

SEQUENCE DESCRIPTION:

GATCTGCAGA TTCAAATGG GAATAAGCTC TATCATATTC TGAAACAAGA ATTAGAATGN 60
 CTTGAGAACG GGCAAATAAC AAAGCAAACC AATATAATTA TATGGTCATT CTGACCCCAG 120
 CTCTTATACA NNTTATACAT GTATTTTGT GTATGTTGT GAGAGTTGTA TGTATGTGAA 180
 TGNGTGTGAG TGTGTATTCA CATACACATA TN 212

SEQ ID NO:5849

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06947

SEQUENCE DESCRIPTION:

GATCATAAGG TGAAGTCCCA CAATAGGCCG TCTGCAAGCT GAGAAGCAGN GNAAGCCAGT 60
 CTGAGTCCCA AAACCTAAC AGTAATCCTT TNCTAACGTC AGGNTGCGTA TCGACCTGTG 120
 TGTGCACATT TGCTGTGCAG AGTGTGCACT GCTGAGGAGA ATGGTGCCCA AGAAGGGCAC 180
 TGTTTGNCCC AAANTNTTNC AANTAANCAT TGN 213

SEQ ID NO:5850

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06948

SEQUENCE DESCRIPTION:

GATCATCTTG AATTACTGTG GGATGTANGT TTCAAAATTT TCAAATAAAG CCTTTGCAAG 60
 ATAAA 65

SEQ ID NO:5851

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06949

SEQUENCE DESCRIPTION:

GATCACATAC TGCAGTCCAG CCTAGGCAAC GGNGCAAGAC GTCATCTCAA GGAAA 55

SEQ ID NO:5852

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06951

SEQUENCE DESCRIPTION:

GATCTCCCA AATCCATTGN TNTACCAGG CCCTCCAGA ACCTCCTCAG TTCCTTCACA 60
 GTGCAACCCT NTGTACTTGG CCCGCAACCC ANTAGTATTG TGCCTCACTT CACCTTCCAT 120
 GGGCAACTGC CCTCCCTTCT GGACATAAAA CCTNATATNT TAAATAAAGT TGAANTATGN 180

NAAGAN

186

SEQ ID NO:5853

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06952

SEQUENCE DESCRIPTION:

GATCAACTGA AAAAAGCATG ACTTTTGAAA TCTCTGAATG CCTTGGTTCT NAGTATTATC 60
ATNCTTNATT GAATTTATTT CTNATTAAAN TATGTAGTTT TN 102

SEQ ID NO:5854

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06953

SEQUENCE DESCRIPTION:

GATCATGTGG AGTGAAAGGC AAATCTTACT GCTTAATGTA TAAACTCTCA CCACAGGAAG 60
CATCGCTGTT TCCAATAAAT ATTGCTGAAG ACAGAAA 97

SEQ ID NO:5855

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06954

SEQUENCE DESCRIPTION:

GATCTGTCCA GTTGTGTAT GAAATGGATT TGATAAAGTT TTTGCTAGTT ATTTACTACA 60
TTTTGGGATT AATAAGTGAT TTANATGCAT ATNTTCCTGT AAATCTACAG TTTTTGTAC 120
AAGATATTCT ACAAGTNATG ANGCTAAGGG AAGAAAATGC CAAAGATACC TCTAGTTATG 180
TTGANACAG CCAGCACAGT TTCGACAGGT CAAGGAAGAG CTGTTTCAGT AAAGANTGAN 240
GTGAAAACNC TTATTTNGGA AANTGTTTCT CANTANTAAN CTGTATAGTT GTTCTCTNA 300
NACCCCN 308

SEQ ID NO:5856

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06955

SEQUENCE DESCRIPTION:

GATCCCAAGT GTTAGAAAA CTAAGTAAAC TTTGTTGTCA AGCAATTTGT CCATGTGGAA 60
AGAATTTAAA GAGAAGCTGA ACAATGGAAT AAACAAATAA AGCATGTTTT TNNATCTTC 120
CCATTAAA 128

SEQ ID NO:5857

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06956

SEQUENCE DESCRIPTION:

GATCTTAAAA ACTGCAGTAT TCCCCATTT TNAATGAGA GTGTGGGGCT GGCAGGGNTT 60
GGTTGGAGGG AGGAGAGAAG ACAGAGGAGC ACTTAAGGTG CAAAGCAGCC TATTTTCCT 120
TCAATAAAAA TTGTTAAGGG AAA 143

SEQ ID NO:5858

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06957

SEQUENCE DESCRIPTION:

GATCCGTGGA AATAGCCTGG CTCCTCTTA CCCAGTAATG AGGGGCAGGG AAGGGAAGT 60
GGAGGCAGCC GTTTAGTCCT CCCTGCCCTG CCCACTGCCT GGATGGGGCG ATGCCACNN 120
GTCATCCTTC ACCCAGCTCT GGCCTCTGGG TCCCACCACC NAGCCCCCG TGTNAGAACA 180
ATCTTTGCTC TGTACAATCG GGCTCTTAC AATAAACCT TCCTGCTTNC ACAA 235

SEQ ID NO:5859

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06959

SEQUENCE DESCRIPTION:

GATCCAGTAC TATCAGAATG ACATCCCCTA CTGAGGAGGG GACCTTCGAG GGCCTCTGCC 60
CCATGTGCCC TCAAAGCTGT CCCACAATCA TGGAGCCCTG CNACCTNCCT GCCCTGNCGN 120
CACATGCAGT NGAGGAGAGG CCTGTGGCCA AAGAACCTGG TAGCGGCTCC TNGGGCAGCA 180
CGTGGNTGGC GCACTTTGGT AACGCCATGG GANTGCAGCG NCCANTCGAA TGGGATNGGT 240
GCTGTTNTAT GCACAGGN 258

SEQ ID NO:5860

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06960

SEQUENCE DESCRIPTION:

GATCAGATTA CCAGGAACAT AGGAGTGGAT TCCTGCCCCA ACCAAACCGC ATTCGTGTGG 60
ATTTTTTAT TCAACTTAAT TGGCTATTCC AAAGATTTT TTTCCCTAT TTTAACGAT 120
TGGAGCCCTT AAGATGCACG ATGGAATTGT GTTTGCGTT TTTNGNAAA NGGGAGCAAA 180
GCGGGGNCCT GNGATAAAC GNTTGGAGCA ATCTCCTTNG GNAGGGATT CAGCANGGG 240
TTAGNTNGGT GAAACATTTT AAAGGGGGGA AAGGGGGGG GTTTTTTTT NAAANTGGGN 300
TAAATNCGN 309

SEQ ID NO:5861

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06961

SEQUENCE DESCRIPTION:

GATCATGTGG ACCAGAGCAA ANNAAAGTTC AGTTTGTGTC ACAATTCATT GCCAGACTTC 60
ATTGGAATGC TTTGTTTGAT GATGTATGTN CATTCTCAGC TTTATTTTCA GATGCTTAAC 120
TGGGCAATGA AGTCTAACTT CAGGTTGAAC TNTCTCCNGN NTAANCTCAG GCTAAATGN 179

SEQ ID NO:5862

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06963

SEQUENCE DESCRIPTION:

GATCGTGGTG GTGGGGACTG GAGACCGGAC CGAGAGGCTG CAGTCCCAGG TGCTTCAAGC 60
CATGAGGCAG CGGGGCATTG CTGTGGAAGT GCAGGACACG CCCAATGCCT GTGCCACCTT 120
CAACTTCCTG TGTCATGAAG GCCGAGTAAC TGGAGCTGCT CTCATCCCTC CACCAGGAGG 180
GACTTCACTT ACATCTTTGG GCCAAGCTGC TCAATGAACC GNCAGGAACT GACCTGCTGA 240
CTGCACTCTG CCAGGCCTCC NAATTGCTTT CANTCTTATC TACCCTTTTG GGAATTATNT 300
NGGCTTATCA ACATAATAAT TTGATACAAC TNNTTCCCAA A 341

SEQ ID NO:5863

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06964

SEQUENCE DESCRIPTION:

GATCTGGTGA AAATAGGATT ACATTGGAGC CAATTGAATA AATTATTCTT TTCAATCAAA 60

SEQ ID NO:5864

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06965

SEQUENCE DESCRIPTION:

GATCTGGGAG GTGGAAGCCA GGCCAGAGGA CTTGGGGAAA ATAAGATGGA GGAAGGAAAA 60
AGGGAGAAGC TGAGCCACAG CTTAACTCCT ACAGAGTGAA ATNAAAACGG GCTGAAAATA 120
CCACCCAGG AGAGGACCTC GCCCAAGCA AGCCAGTGAG CAGCCCTGCC AGACTACTGC 180
CAGACTGAGA AACCAGAAG CTGGTAGTCA TGTGGGCTTG CNTTCTNTGC CAAACGACTG 240
GGAAACCAAA ATNAGCCAC CTTGTGTTCT TCCTAGCTCC ACCCTCCCCG TGCTGCTGTG 300
TTCTGCTCCT TCCNACGGT TTCCTGCTA TAGTTCCAG CTGCTTGTA CGGGGCCNN 359

SEQ ID NO:5865

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06966

SEQUENCE DESCRIPTION:

GATCATGGCT AACGGGCACA GGCTTTCTTT TTTGGGTGAT GAAAATATTC TAAAATAACT 60
GTAAAAATAT TGCACAACTC TGTNAACATG TGAAAACCCA CTGAACTGTA TGCTCTAACT 120
GTATGAATTG TATGGTATTT AAATTNACC TCAATAAAGC TGTATCAAA 170

SEQ ID NO:5866

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06967

SEQUENCE DESCRIPTION:

GATCAGAGCA AGAGAACTTC CAGAGATAAT GGATAGAATG AAAGAATATA TATCTATATA 60
TATTTAACAT GTTGTTTAGT AATCCCTATT TTAATTCAAT TCTCCATCTG TAAAATATTA 120
GCTAACTGAA TTATTTCTGT GTTCTACTCT GGGCTCTCAC ATTAATACTC TGTTCAAAAA 180
GTTTAAA 187

SEQ ID NO:5867

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06969

SEQUENCE DESCRIPTION:

GATCTTGGAC TTCCAGCCT CCAAACTGT GAGAAATAAA CTCCTGTTGT TTGTAAA 57

SEQ ID NO:5868

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06971

SEQUENCE DESCRIPTION:

GATCATGGTC AGCTCACACC CTAATAAGTC CACATCTTCT CAGTGTTTTA GCTGTTTTTT 60
TCATTAGGNT TCCTTNTATT CTGTACCTTG CAGCCATGAC CAGTTCTGGC CAGGAGCTGG 120
AGGAGCAGGC AGTGNGTGGG AGCTCCTNTT AGGTAGANTT TAACATGACT TCTGCCCCAG 180
CTTNATCTGT CACACANGTN TGTGGCACCN CTAGTGCTAC TGCTAGGATA TCACTTACTC 240
AGTTAGATTT TTCCNAAAAA NTAAGCTTTT AATTNATTTT TTTGGTGTN 289

SEQ ID NO:5869

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06972

SEQUENCE DESCRIPTION:

GATCTCCTCT TCCACCTCTT CCTGGTTCCT TTGCGGGGAA AATTGCACTA AAACAGAACC 60
 TTTTCTTAAT CCATGTTGGA AGGAAGCAAC AGTGAACCTCT ACCTGTTCTG GAGTTCCTCT 120
 GGGTCTGCAG AAGGTTGGGA ATTTAGAAAA TAAGGCTGTT CTTTCATATT TTAATTTAAT 180
 CTCTGTCAAT GGCCATCCCT CCCACAAAAA AACGTGGGTT AAGAGAACTT GCAGACTGGA 240
 TATGCAAGCA AACGGGCANC TCTGGAGAAA ANTANGGNAN GGAATGCTGA CTTTCTCTTT 300
 CTNTCTCTTT GTCCCCACAC CNNTTCCCAN CCCAATTACT GGGGTN 346

SEQ ID NO:5870

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06973

SEQUENCE DESCRIPTION:

GATCCCGACC CTCACCAATC CCATTGCTT CCCTCCAGCT CTGCTTAGGC ATTTTGCCCC 60
 TCACCCCAAT GTTCCACACC ATCGACAACC AAGGGGTGAG GTGGGGACAG GCCTCAGCAG 120
 GGAATGGGGC GTATATGTTA GTGTTGCTGC AACAATAAAG CCTGTTGCAT CTCTCATGCC 180
 AGTGAAA 187

SEQ ID NO:5871

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06975

SEQUENCE DESCRIPTION:

GATCTNGGAC TTCCAGAAAA CAGAACTGTG AAAAGNCAAG TTTCTGTNGT TTAACCACC 60
 CAATCTGAAG-TATTTNGTTA TGGCAGTCCT NGGCAGACTA ATACAATATG CAACACATT 120
 ACAATANATA TACAN 135

SEQ ID NO:5872

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06977

SEQUENCE DESCRIPTION:

GATCAAATAA TGATGTTAAA TTCTTAAATC ATATTTGCTA TGCAGCTGAA GATGATATTT 60
 TGATTTGTAT TTTGGGGGTA CCTGTGTTGA GTTGATAAAC ATTCCATCT TCATTAAAC 120
 TGCTTCCAAA CTAGTAAA 138

SEQ ID NO:5873

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06978

SEQUENCE DESCRIPTION:

GATCGGCGGG GCACAGTGGC TCGTGCCTGT AATCCCAGCA CTTGGGGAGG CCTAAGCAGG 60

CTGGTCGCTT GANCCCAAGA GTTCGAGACC AGCCTGGGCA ATACAGCGAG ACCCCATCTC 120
 AATTATATT ATTTAAAAAN TAATTAATGT AAGAGNAATT AAAACAGATT TTAAANNGG 180
 NNAAANNAN 189

SEQ ID NO:5874

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06979

SEQUENCE DESCRIPTION:

GATCTGACTC TTCATTNTA AGTTCCTGT TACATCATGG TCATTNCTA GTTTTNACC 60
 AGACTCCCAT CTCACAATAA AATGCATCAA CAAGCAAA 98

SEQ ID NO:5875

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06981

SEQUENCE DESCRIPTION:

GATCTGCCGG CTCGCCCA GCCTGTGTNG AAAGAAGGCC CACGGGCACT AGGGGAGCCG 60
 AATTCTACAA TCCCGCTGGG GCGNCCGGGG CGGGAGAGAA AGCTGGTGCT GCAGTGGTGG 120
 CCCTNGGGGG CCATTCGATT CGCCTCAGTT GCTGCTGTAA TAAAAGTCTA CTTTTGCTA 180
 AA 182

SEQ ID NO:5876

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06982

SEQUENCE DESCRIPTION:

GATCTTGTTC TNCCTCATCT GTAAAAGNAG GTTAACAAAG CTTTCTGCC CACTTCTTGG 60
 GGAGAAGGGA ATAACATAAT TGGTAAA 87

SEQ ID NO:5877

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06983

SEQUENCE DESCRIPTION:

GATCTTTGGC AGCGCATATG GCCTCTTTGG GGTATCGTC GCAATTNTTC AGACCTCCAG 60
 AGTGAAGATG GGTGACTAGA TGATATGTGT GGGTNGGGCC GNGCCTCACT TTTATNTATT 120
 GCTGGTTTTC CTGGGACAGC TGGAGCTGTG TCCTTTAGCC TTCAGAGGC TTNGTGTCA 180
 GGGCCCTCCC TGCACTCCCC TCTTGCTGCG TGTGATTG GAGGCACTGC AGTCCAGGNN 240
 NNGTCCTCAG TGCGGGGAGC AGGCTGCTGC TGCTGACTCT GTGCAGCTGN GCACCTGTTN 300
 NCNNCANCTG CACCN 315

SEQ ID NO:5878

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06984

SEQUENCE DESCRIPTION:

GATCTNTTTT TTTTGGTAG TTCCTCAGCT ATTCAGGAAG GTGTATTTNT GCCAGTAATT 60
ATCCCTATGC TAATACTTTT TAAAACATTA CTAGTGAGTG CCCTAAAACA TTACTAGTGA 120
GTGCCCTTTT NNTTTACAGA AGAAATTTGA TTGTTGTGAG CGATAATAAA ATTAACGTGG 180
ANCTCTTAAA 190

SEQ ID NO:5879

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06985

SEQUENCE DESCRIPTION:

GATCTCTATT ATNAGGCTAG ATGTATAGCC TCTACTCCCC CAGCTTCTTG CTCTTGACCC 60
TGCACGTGTA GTTGCCCTTC TATTAGCAGC CAAGGAAAAG GGAAACATGA GCTTATCCAG 120
AACGGTGGCA GAGTCTCCTT GGCAATCAAC CAACGTTGCT ATGAAATATG CCTCACACTG 180
TATAGCTCAT TATAGGACGT CAGGTTTNTT GAAAAAAGTG GGCAAGNCAT GATTAATGAA 240
TCAGAATCCT GTTTCATTGG TGAATTGGGT GGGGGCTNTT TGAATTTTAA AAANTNNTNG 300
TNAGNTGTAG NNNNGGTGNT NN 322

SEQ ID NO:5880

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06986

SEQUENCE DESCRIPTION:

GATCATGGAA TACAAGATAA TTTCTCAGGA ATCAGATGGT CTTATTCCAC ACCTGCAGGA 60
ATGTCAGCAT TGCAACCACC ATGGCAAATA TTGATTTAAT AANCAATTAC TATTCCCAGA 120
TAAGTGTCAA ANTCTTAGAN GAAATTGTCA TATCTTAGAC AATTTAGANG TGATGGAGGG 180
TGGATGATGA GAAATTATCG CACCACTGCA CTCCAGCCTG GGCGACAGAG CAAGACTCTG 240
TCTCAAA 247

SEQ ID NO:5881

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06987

SEQUENCE DESCRIPTION:

GATCCACAGT GTTGGGCACA ACTTTGACGT TTCTTAAAAA AAAAATTAA A

51

SEQ ID NO:5882

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06988

SEQUENCE DESCRIPTION:

GATCCTTGAT TGGTGAAAGG ATACACAAAA TCAGGCTGCT TCAGAGGAAG TCATCTGCTC 60
ACAGGAATCA GGGTGAAGGC CAAGGACGGC ACTCAAGAAT TGNCTGTCT CTAACAAAAA 120
AGCATCTGCA ACGAACTTCC TTAAATTTT GAGTTCAGTG TCTGTGATAA TTAAGAAATG 180
GCANTACCAT GTATTNCCC CAGAAGTTAA GANATATTGC TGNACGGACC ANTAAAGTA 240
ATTNCAGCTC CCTCAAGNAN NATGNGGTGN GGGNGN 276

SEQ ID NO:5883

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06989

SEQUENCE DESCRIPTION:

GATCGCGCCA CTCTCTCTA GCCCAGGCAA CAGAAAGAGG CCCCATCTCA GAAA 54

SEQ ID NO:5884

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06990

SEQUENCE DESCRIPTION:

GATCCTTAAT TGCTACCACA TTTCAAACAA GAACTATGAC CAATTAAACT TTACTGTTGT 60
TGAACTGCCA AA 72

SEQ ID NO:5885

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06991

SEQUENCE DESCRIPTION:

GATCCNTTGG GAATCCAGTT GAAGTTCCCA AATACTTTAT AAGAGTTTAT CAGACATCTC 60
TAATTTGGCC ATGTCCAGTT TATACAGTTT ACAAATATA GCAGATGCAA GATTATGGGG 120
GAAATCCTAT ATTCAGAGTA CTCTATAAAT NTTNGTGTAT GTGTGTATGT GCGTGTGATT 180
TACCAGAGAA CACTNAAAA NAACCAACTG ATNTTTNAA TCCTANTGTG TAGGTAAAG 240
TGTCATGCCN TNNACCANTN CTAATGN 267

SEQ ID NO:5886

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06992

SEQUENCE DESCRIPTION:

GATCATAAAA ATAGCAGNGC ATGTTNCCTG ATGATTTTAC AGTGCATATT GTCATGGCCA 60
GGGCTTAGAG GTAGGGGAAA AACATGTGGA CAGCTTTGTG ACAAGAGTCT CTCTTATAGT 120
GTTTCTTTCT AAAGTAACTT TTTCTGAGTA TGAATGTNNN NNNN 164

SEQ ID NO:5887

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06993

SEQUENCE DESCRIPTION:

GATCCATGCA AATTGTGCGA TCCGACGGGT TAAC TTCTCA GACAGACTCT ACTCAGANGA 60
TGAGCTGCCG GCAGAGTTCA AACTGTATCT CCCAGTTCAG AACAAGGCAA AGCAATAACT 120
GGAATTGTGA CTCGAGGGAT AGACCCCTGG ATGTGACTCT NCTTTTAAA AGGAAACTAT 180
GTGGAGGACG ATGCAAAAAC ATATTTATCT TAGTTTGCTC TGCTGTAGTT CTGTTATTTA 240
TACTTGGTGT TGCTTGTCAT GGACACNGGT GAACATGCCG TAACTCTGTG ACTGCATTGT 300
AAGTGCAGTG GGGGTAAGCA GTCCTGTGGC GTGGCGCATT N 341

SEQ ID NO:5888

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06994

SEQUENCE DESCRIPTION:

GATCCTGGAC TGGGTACCTT ACATCAATGG CAAGTTTAAG AAGGNTAATT AATTACACAA 60
ACCC TTCACA GACTGCTCTG GTGCCTGGTG GTGCTAGCTC CTCCCACCTC AGCACCTGCT 120
GCATCTGGAG CAGCCCAAGC CTCAGGATGG NCAAGNGGAA ACCCAGAGCT CAGCTTCAGG 180
CTTCTTATGT TTCTGAAAAC AGCTTGNTA TTTTAATGCA CGTTGCATTA AACCTCACTG 240
AANCATAANG GGGAAA 256

SEQ ID NO:5889

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06995

SEQUENCE DESCRIPTION:

GATCTTTGTA GGA CTATATG TGTCAGTAAT NATGAGCTTC AATCCTGACA TTAATAACTT 60
ACTGTNGAGC AGAGAAGAGT TGCTTGTAAC CCTTGTGCTT TTATATACTA NTTTTAAANC 120
TTAAAGTGAT AGTGAGCTAT GAAGTACCAA TCATGTATGA TATGTGGATA CAAAGCACAG 180
TATTATTAAG GTGTNATGTG GAAA 204

SEQ ID NO:5890

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06996

SEQUENCE DESCRIPTION:

GATCAGCAAT AAAAANAAC CTACAAAAA NCCTATATTC NTAATTNTT GCTTTTACGG 60
TGATATAGTG CATGCAAACC AGGAGCATT TGTGTCTTA GAAAAATAAT CTTAGAACAG 120
ATGGCTGTGA AAATTACACC CATGCACAGN ACANGCCACA GGAATAATNG GNN 173

SEQ ID NO:5891

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06997

SEQUENCE DESCRIPTION:

GATCAAATAT TGGTTGAATG CCTATGTATG TCAGGCCCTG TGCTGAGCCA TGAGGATTAA 60
AAAGATGAAT AANCATATCT TGTTTAGGAA ATGGATGTAT AAAAAATCA AGTGCAATAA 120
AGTGTGTGTC CAAAAGCTGA CACAATGGAA AGGAAA 156

SEQ ID NO:5892

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06998

SEQUENCE DESCRIPTION:

GATCGCTTGA ACCTGGGAGG CAGAATTTGC AATNAGCTGA GATTGCACCN TTGCACTCCN 60
GCCTGGGTGA CAGAGTGACA CTCTGTTTGA AACAAACAAA 100

SEQ ID NO:5893

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06999

SEQUENCE DESCRIPTION:

GATCACTTGA GCTCAGGAGT CCTAAACCAG CCTGGGCAAC ATAGTGATAC CTTGTCTCTA 60
CCAAA 65

SEQ ID NO:5894

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07000

SEQUENCE DESCRIPTION:

GATCTTGAAT AATTCATAAT TCTTCCACAG TAGAAATAAA ATAATTNCTG GCTAGTTATT 60
TTCTTAAAAA TAAAAAAAAT TTGAAAACCT CAAA 94

SEQ ID NO:5895

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07001

SEQUENCE DESCRIPTION:

GATCCCTCTT TTCCAGAAAA TTCTGTGGAA TTTTCTGTA GGACTTTGTT CTCCACAAGC 60
TTGAATTAAA GCAGGATTCA GTTTGCAAA 89

SEQ ID NO:5896

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07002

SEQUENCE DESCRIPTION:

GATCAGCTGA AGTGTGTTTT AGACCCAAAC CATCTGGCCC CTCGTTTTG CTCAGAGGAA 60
GTAAATNTNC ACTTAAATGA AATTGAAAC GCCATGTGGC ACCACAAAAG AGCTCTCTGT 120
ACTTNCCCCA TGCTGCCTCA AAAGTNTCTGT AAGTTTCGGG GTCAGTGTCC CACCCTTCAC 180
TTCCCGANNN NNGGGN 196

SEQ ID NO:5897

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07003

SEQUENCE DESCRIPTION:

GATCCAGTT TGCCTTGCCA AATAAACTCT GTTTATGTGA ATTTATTAAA CGCAAA 56

SEQ ID NO:5898

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07004

SEQUENCE DESCRIPTION:

GATCCAGCT TTTTCCCTC TCCCACAAAA CCAGGTAGTG AAGTTATATT ACCAGTTACA 60
GCAAAATACT TTGTGTTTCA CAAGCAACAA TAAATGTAGA TTCTTTATAC TGAAGCTATT 120
GACTTGTAGT GTGTTGGTGA AATGCATGCA GGAAAATNCT GTTACCATAA AGANCGGTAA 180
ACCACATTAC AATCAAGCCA AAAGAATAAA GGTTCGCTT TTNTNTTGT ATTNATTGT 240
TGTCTTTGTT TCTATCTNNG ANATGCCATT TAAAGGTAGA TTTCTATCAT GTAN 294

SEQ ID NO:5899

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07005

SEQUENCE DESCRIPTION:

2153480

GATCTCCCTA CTCCATTNNN CCCTTTAATT NAAGTGGCCA CATGTATATG TCTTCCCTGC 60
TGTGTTAGGA AAATGGGGGC TGGATATCCC AAGAATCAGA GGTATATAN AAN 113

SEQ ID NO:5900

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07006

SEQUENCE DESCRIPTION:

GATCGCTTTT GTGACTGTCC ATCTGTCCTT GACAGTGGCT GTCATATTGA CTCCTTTGNT 60
GNTTTGTTGG TATTGGGGAC ATTTTCCACG GCTGAGTTNT TTTTGACTGA CATGTTTATG 120
ACATAGACGT NGTTTTCGCA TCCNTGACTT AACTGACTT GNACNCCNTT N 171

SEQ ID NO:5901

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07007

SEQUENCE DESCRIPTION:

GATCTACTGT AAAAAGAGGA TTAAGNAAAA TAAATNAGA GCAATTATAT ATATAATTNT 60
ATATCATACA CAGAAA 76

SEQ ID NO:5902

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07008

SEQUENCE DESCRIPTION:

GATCACGGGA GCAATGCTGT ACGGTTTTGT ACACTGGTGG TTTGTTTCCT AGAAAACCCA 60
TTGTTCTCT GGATTCTAG CACATTACTA AAAGAGCCTC TNCTTTGTAA ACATGAAA 118

SEQ ID NO:5903

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07009

SEQUENCE DESCRIPTION:

GATCANNCTG ANCCAATTTA CCAAGCATT TTAAGGAGGA ATAATNCCAT ACCATGTAAA 60
ATACCATGAT ATGCTGATTA TAATACATTA ACAAATTTT AAGTTGCGTT CACTAAATNC 120
TGTCTGTTT CTTCAAAATA ATATAGCTTA AATTGCATGN TAATNGTATA TCTTACCTNT 180
TTNGN 185

SEQ ID NO:5904

LENGTH:134

TYPE:nucleic acid

01742

2153480

TOPOLOGY:linear

CLONE:HUMGS07011

SEQUENCE DESCRIPTION:

GATCTACCCA ACTCTGTCAT CTGTAACAAC CAGTGATAAC TCTCTTGTCT TGTA AAAAGG 60
GTTTATACAT AACTTGTACA TGGTTTCATT TTGTATTNC CGCAGATTAA AAATTATGT 120
ATTCTNTTC TAAA 134

SEQ ID NO:5905

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07012

SEQUENCE DESCRIPTION:

GATCGAATTN CNACCCCTAA NCTTGTCGG ACGTATGGTC CAAATTCANA TTAAGGTGGT 60
CACCCAACCC GAGATGTCAG GAAAGGCCTT CTGCAGAGAA AATNTCCCC CACCGCCAT 120
CTGCAGCCAG GTGTGTGCCA CACGGCAGCC TTCCCGAAAC ATAGTATGGA TTTTAAAAAT 180
GTGTTTATTT TTNTNTCTCA ACCACTTTAT AACGTATTTC TCAATTTANN TTGTAATGTC 240
TTGTNTTGGG GNGTTGCTGG GTATCCTTNG TTATGCTTCC CACTGTTNTT NTCACN 297

01743

SEQ ID NO:5906

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07013

SEQUENCE DESCRIPTION:

GATCTAGAAT GGGGCTGCAA GNCGGTCCCC ATTTTGGATG GGTCACATTC AGACACCACA 60
CTATGGTTGC ATCACCTGTC ACACCGACCT AGACAGCTGG ATGCCATTG GNGTAGAATA 120
ACCACTGAGT TGAGTAANCT AGAAATCATA TTACGTGAAG AGTGGCAAAA GGCCTGAGAN 180
AGTTTAACTT GGNAACATG ACTTANAAGG GGCATCACTG CCCTCNCAT TTNTNTNANG 240
GCCTCATTC CNNG 254

SEQ ID NO:5907

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07014

SEQUENCE DESCRIPTION:

GATCCATGAA GGAATCGGGA GTGGATGGAA TGCGGTAAAA CTGTCCTGGG GCCGGACCCG 60
TNGCCCAAAG TCCGGACCN GACCNAAAA ACGCTTCCAT CTTAGTCAG TTAGCAGAAA 120

SEQ ID NO:5908

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07015

SEQUENCE DESCRIPTION:

GATCCCAATT TTGTAAAAAT ATCTGTAATA TGTAAGCATA GGTATTTGTA TATCTTAAGA 60
AAAAAAGCCT AGAAATAAAG CCACAAAAAT AAA 93

SEQ ID NO:5909

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07016

SEQUENCE DESCRIPTION:

GATCTCAATN TGCAAACCTC TTGGNCTCCA GACCCCTGTC TGGNTGGNAC TCCTAGCAGT 60
GTGTGGTTTC ATCAGGAAAT CCTGTCAGCA GGGGNTTAGA TGGTTCCTC AGGAGGTGGN 120
GAGCTCCAT AGCATTGAAG GCCAGCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCCCTC 180
ACTTCCCCT NACCCATCCN TTAAAGTGA TTGGCTGTGA GGAGCACAGA GGNGTGGCAA 240
TTCCATCTGT TNATGGGGTC AGAAGACATA GCCGNCATGG NGATTTTACA ATTNACCNGN 300
GTAAAN 306

SEQ ID NO:5910

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07017

SEQUENCE DESCRIPTION:

GATCATATAG AGTAGTTAAG ACAACTGTAA CAGCATTTTT TGAAATACAT TGTAATAATA 60

TAAAAGGTAA CATAATTAAA 80

SEQ ID NO:5911

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07018

SEQUENCE DESCRIPTION:

GATCTTAAGC TCTGCTCTCA GCAGATTTC A GGTGTACCAT TTGTAAACTG TACTGAAGGT 60

GTGTCCTCAA GAAGAAAGTG TTCAAATTAA AAAAGCTGCT GCCAAGTAAA 110

SEQ ID NO:5912

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07020

SEQUENCE DESCRIPTION:

GATCGGGAGG ACTGTGCGCA GCAATTAACA CCATGTAGAC TTCCTTAGTT CTTAAGTGGT 60

TGAATTGCT GNTTGTCTG TAACGTTATA AATAGTNNAT ATCTGAAGAC GGAGAGCCTG 120

TANTATTCTT CAGATTAAAT GAAGCGTGAG ACACTTAAA 159

SEQ ID NO:5913

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07021

SEQUENCE DESCRIPTION:

GATCTCTCCC ATGCCTTTTA AGCAATTAGA ACTAGATAAT GCAGCCATTI GTCACCCAAT 60

TAAATTTGAA AGGCCAGAAA TGCATGGATT AGCACTTCAG CTTTGCTGC AGTCAAAGCA 120

ATTGTTACTT AGATAGAAGG ACAGTTAAAN TGAAAAATGA ATTTGNTAA AANTGCGGNN 180

GTATAGATAA TATTCATT C TNCCTTTTAA TGCTTAAACA CCCTGTATTC TGTATTTNAC 240

TTGTATCATA NTTTTATTG CTCATTCCTA TTTCCCTGNG ATACTTATTN CTTNCACAAAT 300

ATTTCTTCAN GTGGATATGT NCTTTAANTN 330

SEQ ID NO:5914

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07022

SEQUENCE DESCRIPTION:

GATCATAGCC CTNNGCCTGG CGGCACAGCA GCACTTGCGT TCTCGGGGCT GTCGATTNCC 60
 TGCCACCTGG CCAGATAACC TCAAGATTTC CACCTTTTCT TTTCAGCTTG ATTGCATTG 120
 ACTATATTN ACAGCCAGTG ATTGTAGTTT CATGTTAATA TGTGGCAAAA TATTTTGTGTA 180
 ATNATTTNCT AATCCCTTTC TGAGTACTCT GGGGCCCTGC ATTTATNAGG CACCTACCTT 240
 CATTTTGCTA ACGCTTANNC TGAATAAAAG NTTTTTGATT CCTTAANAAA AGGGNNNGN 299

SEQ ID NO:5915

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07023

SEQUENCE DESCRIPTION:

GATCCTTTGT CCAGAAGAAG CCCATGGAAT ATTGAATGTA ATACATTTAG TCAATTAANT 60
 TTTAAGNAGA TTCTTATNTA ATAAA 85

SEQ ID NO:5916

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07025

SEQUENCE DESCRIPTION:

GATCCAGCTC AGGGGAGCCC TCCTCCTGAC TTTGGAGACC TCCTTCCAGA AAGACTGCTC 60
 GGACTATGGA CTCTGAGCTC TTAAGTTGCA CCCGCTGTAA TACAAATNAG TTGTTTGCCT 120
 GAATTCCAAG AACTGTCTCT GTGGTCTAGG CTGTCTGAAA TTTCTGTTGA GGGTAAGAGA 180
 ATAAGGAAA 189

SEQ ID NO:5917

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07026

SEQUENCE DESCRIPTION:

GATCCCTAGG GATTNTTCAT CTTAAGACTC AAAAGGCTTA ATACCAGGAA CCACCTTGGC 60
 AAGATATTTA CCCACCGGCC ATCTCTGTTT ACTCATGAAT GTTAAATGTT AAAACGCAGC 120
 GCTCTAACCC TGCNTNNNAT TTA CTGCAA ATGTCTGTAA TCTGTAATTG TNATGCCTCT 180
 GATGGAATAA NTTATCTTTT TCAGTCTCCT CTAAG 215

SEQ ID NO:5918

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07027

SEQUENCE DESCRIPTION:

GATCGGATTG ATTAATAAAC AAATNCTCTG GAATTTTNC GTTCATGCTT TTCCGTATTC 60

TTTATGGCTT TTAAATAAAT ATACAATGGT TAATAGTAAA

100

SEQ ID NO:5919

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07028

SEQUENCE DESCRIPTION:

GATCAGGGGT CCGGCTGTCC TTCTGTCCTG CTGCAGACTA AAGGTCTGGC CAATGTCTTG 60
CCCCACCCCG CCAGCCGCGA TAGGCGCAG TTCCTATATT CATGTTATTT ATTGTGTACT 120
GACTCCATCT GCCCCGTCAA ATAAAAAACC ACAAGGTTCTG AAA 163

SEQ ID NO:5920

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07029

SEQUENCE DESCRIPTION:

GATCACTGCT GCTAGCTGAC TGGACCTCCC CATTGGAAGT TTGTAATTTT NCTTTGGCAA 60
AGTTTCATTG ACTAGTAGAA CTCATTCTGT TTAGTGTAT ATTTCAATAT AAATGTAAAC 120
ATTTTGCTCA AA 132

SEQ ID NO:5921

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07030

SEQUENCE DESCRIPTION:

GATCCTAAGG AAGGAAAAAG AAAGTGTTAA AAATTAATAA AGGTTTTTTT GAATCCCGTG 60
TCCTTCAAGT GCTTTCTAAC TTGAGAGGA AGAAATTGAC CACCTGGACT ATGGAAGTGT 120
GCGTAACAGC TTTGAAAGTG TATTTAAAN TTAANTCTAT ATGCCTTTAA NTCAGTGAAT 180
TGGAAACATA TTACATGNGN TTNATGATT TNCCTCAAAT ATANTAANTN GTTTCCTTTC 240
CAGTAGAAA 249

SEQ ID NO:5922

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07031

SEQUENCE DESCRIPTION:

GATCTGCAAG TAGCCTAAAA ATGCGATTGC TGGTAAACCT GGCCTCAAAT TTCATACTAC 60
CATAACTNNT TTTATATATT GCCACTAATT TTGACTGGAT TTAATAGCAC TTTATTGTAC 120
AACTACAAAA AAAAANTNTA TTCCTGGANT TGTGGCCNGT GTAATTNCTC TAATGTNCTG 180
GTGCTTTNCA N 191

SEQ ID NO:5923

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07032

SEQUENCE DESCRIPTION:

GATCTTATTT CATGAAGGTT GTATAAATGA AATCATTGAG TAATGTATCT TTTTAAGACA 60
GGTTTTTTTT TTTNCTCAG CACAATTTC TTGAGGTTCA TCCAGGTTGT TACCCATAAT 120
ACCAAGTTTGT MAGTCTTAT TGCNGTAGTC TATAGCATGC TTATATCACA GTCTGNCCAA 180
CCATTCACCC NTNGATGGGC ATATGGGCAT TNCCNGTTTG GNGCTATTNC AANTAN 236

SEQ ID NO:5924

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07033

SEQUENCE DESCRIPTION:

GATCTNTTTC ATAGTGTTCA AANCTGTATT ATTATATGTA GAGGGAAATA ATTTTCTCAA 60
CACTAATCGT TAATAACTAT TGTATTAAAT NGTCATNANG N 101

SEQ ID NO:5925

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07034

SEQUENCE DESCRIPTION:

GATCTGCAGT TTCCCCTTTT NTCCCCTCTG AAGAGTGGTT CTTATGTGCA ATCTGCAGTA 60
ACCTTGAAGT CCAGAGCTGC ACTATAGAGG AGAATGCATG CCACTATGAC AGCAGTATGC 120
CAAGCTTTGT NTTATCTCC TAATAAACGT TAAGACCTTT GGTGTAATAA ANGACGAGC 180
ATTCACCAAC AAA 193

SEQ ID NO:5926

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07035

SEQUENCE DESCRIPTION:

GATCTGGGGT AGGGGGCACC CTACAGTGGG ACCCNTCCCN CATTATTCTT TCTNTCCAGC 60
CCCTCCCTCC CACTGGAGCA GCTCCAGAGN CATTCCTCAC CCCCCTNACC TCTCCCAGCC 120
AGGGCTGAGA GGATTCGAGG TGGCTGGGAG GGTTCAGG CCCCCTGCCC CTTNCCCACA 180
AACTGGGTGN TAGGGCGGAC TTACCTGGCC CAGCCCTGCC TCCNTNAGCC AAGCCAGNCC 240
NTNGGGCTGT N 251

SEQ ID NO:5927

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07036

SEQUENCE DESCRIPTION:

GATCTCGATA TTTCAAATGG GCTTTNNATG CACTGTTGCC AAGAAAGGCT TTCCTGATT 60
TTTTNACAAN TNAATTTTGG CACACTTCA TTGGTGTCTT TCGGCAACTT ACATTGAAAN 120
TGAGCTATTG TN 132

SEQ ID NO:5928

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07037

SEQUENCE DESCRIPTION:

GATCCCTGGG TTGCCCTGTC CCAACCTGCT TGTTAGGTGC TTTCCCATAG NAGGCCCTTC 60
TTGAGAAACA ATAACTAGG TAGAACTAAA 90

SEQ ID NO:5929

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07038

SEQUENCE DESCRIPTION:

GATCTCAAAA CTCATTGTGT GTACCATATA TNATGGTTTT NTGTCTATAT CATATATTTC 60
CCTACTTATG TGTTTAAATN CTATTTNGTN ATGTCAATCT CTCTGATGCC ACCTATTN 119

SEQ ID NO:5930

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07039

SEQUENCE DESCRIPTION:

GATCGGGGCC AGAGGCAGAA CCCTGGTGAG GAAGCTCCAG TCCTGCTCTC TACCCAGCCC 60
ATCTTGCCCTC CATGGTGCCT CTGGAGGCCT CTGGGCCTCC TCTAACAGGG GCTGGTGGGC 120
ACCAAGAGNC AATGGAGTAG ACCCCTGGNT GGTAAGGGNC AAGTNCACC GGTGCTTCT 180
GGGAAGGGGT TTCTAACACT AGTTTGTGTG CTGTGGTTCC TGGGGTGCCC TCCACTGCCC 240
TCTNTTCAGG AN 252

SEQ ID NO:5931

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07040

SEQUENCE DESCRIPTION:

GATCCCACTG CAGTGGTGCC TACATTTATC ATCATGGCTC CTCTTGAATA AAATCTACCT 60

TACCATCTTC AACAAA

76

SEQ ID NO:5932

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07041

SEQUENCE DESCRIPTION:

GATCAGCACA GTAATGCCCA ACAATATTGT TTTTAAACAA AAAATGTAAA CATTCAAAAG 60
AATCTCTCTA AATCACTGAT TAANTCATTT GACTGAAAAC AAA 103

SEQ ID NO:5933

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07043

SEQUENCE DESCRIPTION:

GATCTACCCG NCTNGGCCTC CCAAAGTGCT GGCATTACAG GTGTGAGNCA CCGTGCCCGG 60
CACCAGNATC CTTTGGTATA GCCAAGCCTT TTGGTTACCG NCTCATGAAG AATATGCTTC 120
CCGCATTGTC CTAGTCCCAG TTGTATTCTC ACAGGTGTTA TGNGGGGGGC ACAATCCAAA 180
TNATAAACCT GGTTCATGNC CAACANATTT NTGCTAAATA GGGAGGNGGG N 231

SEQ ID NO:5934

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07044

SEQUENCE DESCRIPTION:

GATCTGAGCC CAGCGTACAG AGAAGGCTCT GTGCAGACAC TGCTCACACC TCCAGCTCCC 60
AGCTCACCTG CCCACAGGT GCCAGGNTAC CTNTTNTANT GGCCAGCAGG GCCCTNACCA 120
TCCTCAGCCT GCNTTCCAGT CGCCATTCTT TTCCATTCTG CGGCTCGTGC TTTAAAAGCA 180
ACCAGCCAAC CNTTNTGAT ATAGTAGGGG ACTTGAAAGG GGCTAAGAAG ACTGANGATG 240
GTCTGCCACC TTTAACCACA AGGNTTNGGG CTTTGTTN 279

SEQ ID NO:5935

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07046

SEQUENCE DESCRIPTION:

GATCTAGGAG AAGGGNCTCA TCGGACCCT CACATGGGCA GAAAAATGGT GGTCAATGGC 60
CGACATCACA GTTTCCNGT TTCCACCCA GCTAAAAACC GTTGTGCT TTAANTTTNN 120
ATAAACTGGA ATCCTTTTAC CCGCTCCTAC AGCTAACCTT CACANGCATG AGGTGCTGTG 180
GCTGTNCCTT ATCCTAATGA TCGCTNNGG NCCCGTAAAT GTNAACACTC ATGAN 235

SEQ ID NO:5936

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07047

SEQUENCE DESCRIPTION:

GATCAGTTAC ATTCACTAGT TGGTGAGTTT TGAAGAATAA CTACATTNA TTCAAATA 60
ACAAATGTAT ACGGTTTTAG TTCAGTGTTG AAGAATTNA ATACAATATT AANTNNCTN 119

SEQ ID NO:5937

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07048

SEQUENCE DESCRIPTION:

GATCCCTTTT NAAAAATATA TGTATGCATG TNTGCATTAA AGAGTCTGAA AGGATACTTG 60
CCAAAGTGTA AAAGCATTTA TCTCTGGGAG GTGAGATTG GAGCAATTAT ATTNCTTTT 120
TGCATATCTG TAACTNCTNA TTTCCCNCAA TGNGCATGTA GTGTCTGTAA AATTTCCAG 180
GGAATAANCA NTGATGTTCA CAATATATAT TNN 213

SEQ ID NO:5938

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07049

SEQUENCE DESCRIPTION:

GATCCAGACC ATCCTGGCTA ACATGATGAA ACCCTGTTGC NTGTNGTACC AACTACTTGG 60
GAGGCTGAGG CAGGAGAATG GCATGAACTC GGGAGGCGGA NTTGCAGTGA GCCTCCAGCC 120
TGGGCAACAG AGTGAGACTC TCTCAA 147

SEQ ID NO:5939

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07050

SEQUENCE DESCRIPTION:

GATCCTGGGA GCCTCTGTTT TTTGCGCATT TCAGACACAG TCTGTGTGGC GAGGAGTGTG 60
ANGGNAGGAG CCTNGGGTGC AAGCCCGTGT NTTTGGCCTC TTTCCTCGTG AAGACGATGT 120
GTCCCCGTCA GAAAAAGTGG GCTCCNTCTG CAGCCCCGTG AGCTGAGCCC AGGCTGCGTA 180
GTGACCACAA GCTTATGTGN AGCACTGCTC AGGGAGGNTN TCAGGAATTC CCCTCACCTC 240
GGAAAGGANC TTCTCAGTTT TTATTGGGGG TGTNTAAATT TNCTTNCATA TNGTTCATN 299

SEQ ID NO:5940

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07053

SEQUENCE DESCRIPTION:

GATCCTTCAG GCAGTAAGGG AGAGTTTGC CTCCTTACAC AGTGGCCTTT GCTTGCACCT 60
 CCAGCTGGAG ATGGGTGTGC CCCAGAAGTA AGCTTTGCAT CTCTTACAAG AGGGGAGCTA 120
 CAGGGGCAGC CGTGGCCTAG GCCCAAATC TGCTCTGAGA AAATAAATAT CTGTACCACC 180
 TGTAAA 186

SEQ ID NO:5941

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07054

SEQUENCE DESCRIPTION:

GATCCGTNA TGGTCTGGG AGAGGCTGG TCAGGAGTCC CAAAGGTCAG TGACAGTTTC 60
 TCAGAAGAGG CCCAGCGTCC ACCTCTCTCC CAGGGCCAGA CACCTCTTCC TGGCTCCCC 120
 ATCCCCCTAT GGGCTCCCAG CNCCTTGCAC CCTCATTGCT GNNNAGATTA AAGCCTCTGT 180
 TTTGCACCTG TCAAA 195

SEQ ID NO:5942

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07055

SEQUENCE DESCRIPTION:

GATCATTCAC TGTTTTNGTT TTAAACTGG TCAGTACTAT GAAGCTTCTG TGGTTTGTAT 60
 GATGTTTTAA CTTTCACTTT AAAGTGCATA GAATAAATTA AATTGAAAAC ANCAA 116

SEQ ID NO:5943

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07056

SEQUENCE DESCRIPTION:

GATCCGNAAG CNAGANACCC TGCAGGCTGG CGGGGACCCA NGGGAAAGGC CTTCCCAGGC 60
 CTTTCTAACC CCTGTGGCCC TGGACTTTCC TTGTNTGGAC TCACCCAGG CCTGGN 116

SEQ ID NO:5944

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07057

SEQUENCE DESCRIPTION:

GATCATAATC ACTGCCTTAC CNNCTCACG GTTGTNGTAA GGACTGAGTG TGTGGAAGTT 60
 TTTAATAAAC TTTGGATGCT AGTNTACTTA GGGGGTGTNC CAGGTGTCTT TAATGGGGCC 120

TTCCAGACCC ACTCCCCACC CTTNTCCCCT TCCTTTGCCG GGGNACGNCG AACTCTCTN 179

SEQ ID NO:5945

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07058

SEQUENCE DESCRIPTION:

GATCTAGATT AGCAATATAA AGAAGCATAG TGGTACTCTG TTTCACACTT TCAGTAGATT 60
TATTAGAAGT CAAATNCTAT TCAACAGACA CTTATTAGGA TATACAATA ATTTANGAAT 120
AAAAATCCAG GCACAATATA TTTNNNTNAA NTGGTATTTG TNAGTN 166

SEQ ID NO:5946

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07059

SEQUENCE DESCRIPTION:

GATCTTTTGT GACTACAAC TCTNTTGTA ATAATGATAT ATGGTATTNC CATCGTCAGT 60
TACCGAGTAT AGCCACTGGG TATCACTACT TTGTGTTAAA GTGCCTTCGC ACTTTAAGTA 120
CATTACTTAA ATGTTGCTTT TAGCTTTGAT AAATTGAAAA TATTNAATG GGNNGGGGNN 180
TTGAAATTGA AAACACTGTA AAATAGGTTG GNGTGTCAGC NNTATTANGN 230

SEQ ID NO:5947

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07060

SEQUENCE DESCRIPTION:

GATCCGCCTA CTTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCATGCCCAG 60
CCAGNGATT AATNTTAAAT AACTAATTN AGGGCACAAT TTGACCTCCA TGNCAGCCT 120
GTTTGTATTA CTTAATGTGA ATATNTGTGT GTTTTGCCAN GGGNTATTGA NGTATTN 177

SEQ ID NO:5948

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07061

SEQUENCE DESCRIPTION:

GATCTCCAGG CCCAGCCTGG CCCCAAATAT TCTTTCCTTT CATCCTCAGC AAGTGCTGAG 60
TCTGTGAATA AAGCCACATA ACCAGCGGGC ACTAAA 96

SEQ ID NO:5949

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07062

SEQUENCE DESCRIPTION:

GATCATAAAG CCACCGGCCA CTGCCACGCA TGTTGCACCT GTGCCATCGT GCTCCCTCCT 60
 GATGGGCACC GTGGTGGAGG AAGTCACCCA GCTGTTTCTC AGTCCCAGAG GCCGGTGGCT 120
 GGTTTTAAAC TTGTGTTGAC TGTTGATACT TATTTACTGT ATAAATATAA TTNATCATT 180
 GTACCATGAA A 191

SEQ ID NO:5950

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07063

SEQUENCE DESCRIPTION:

GATCCAACCTG GGAGAACCTC AGCCAATGCT GGAAGNATGA TTGAAGTACC TCTCTTTTNT 60
 NACTCTTGTA CAGCTTAATG TGCAATAAAG GAAAAGTTAT ATCTGTAAA 109

SEQ ID NO:5951

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07065

SEQUENCE DESCRIPTION:

GATCGACCTG AAATCCTCA CCAAAGTNCT CGNNCCGGAG CACGAAGTCC GGGAGGATGA 60
 TGTCGACTGG GACTGGGACC ATCTGTTCAC TGAGGTGTCC TTAGAGGTCC TACTGAGTG 120
 GGACCCACTG CAGACGGAGA AGGAGNACCC TGCNGGGCAG GCCATNCACA CCTNAGCCCG 180
 TCACCCATGC TCTAGACATN AAGAANTGCA ANGGGN 216

SEQ ID NO:5952

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07066

SEQUENCE DESCRIPTION:

GATCCACCAA AATAATGAT TTTCTACATT TTCATTTGGA CTAAATCCCA CGAATGACAA 60
 CTACCACCTT TTTTCCTTT TTAATTAATA CTAAATATTG TGATTTCTTA TTTGAGGTTC 120
 AAAATGACCT GCTTGAAACT TTGATACATA TTGGAATACA TTATGTTAAT AACTTTGTAG 180
 CTTTTTGTGA AA 192

SEQ ID NO:5953

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07067

SEQUENCE DESCRIPTION:

GATCACACCC TGAACAATT GGNGGATTGC TTGCTGCCCT GCATCTTAAG GCGTATTCTA 60
 GCAGCAAAGC TTGTNATGCA CTGACTTGGG GCAAGTAAAA CTGATGCTGA GGACAAAGGG 120
 AGANGATGTT CCTCGCCCAG GGAAATNAAA ACTTTNCTNA TTCACCTTGC TTGTGCTTAA 180
 NCACTTATGT NCATCTAGTG TAGAATACAT GGCTACTTGT TTGTAATTNT NTNATTGGTG 240
 GAATTAAAGT AATTTTCCCT TATCTTTGAN CTTTATTTA GAGAACTNAA ANAAAGCN 298

SEQ ID NO:5954

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07068

SEQUENCE DESCRIPTION:

GATCTNCAGG GGNATGTTTT ACCATCTGNA TCCAGCCTCC TGCTAACTCC TAGCTGACTC 60
 AGCATAGATT GTATAAANTA CCTTTGTAAC GGCTCTTAGC ACACTCACAG ATGTTTGAGG 120
 CTTTCAGAAG CTCTTCTAAA AAATGATACA CACCTTTCAC AAGGGCAAAC TTTTTCCTTT 180
 TTCCCTGTGT ATTCTAGTGA ATGAANTCTC AAGANTCAGT AGANCNAATG ACNTTGGNAT 240
 GTAATGNTNN 250

SEQ ID NO:5955

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07069

SEQUENCE DESCRIPTION:

GATCCGTNAA TNCNCGGAAT GGCAGGGGAA GCCTTGCACT AGGTGCAGA GAAGCATCCT 60
 CCACATCCTG TGTCAGAAAC CCTGGTCTCC GTGGCACTTG TAACTACCG TNCTGTCTNC 120
 TGGTCTGTNT GTGTN 135

SEQ ID NO:5956

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07071

SEQUENCE DESCRIPTION:

GATCTAGAAT TGACATTTTG CCTTCTTGT TCCAGGTGTT TCTATTTTTT CTATTCTTTC 60
 AGAGAAATCT CATATTTTCGG TGTATTTATT GCTGTACTA CTATATTTAC TGCTGAAAAC 120
 TGTAACAACC TGAAGATTTG TAAAATGTTA AACATAGTTC ATTAAAAATA ATAAAATAAA 180
 TCTAAAAATGT AAA 193

SEQ ID NO:5957

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07072

SEQUENCE DESCRIPTION:

2153480

GATCCTCCAA AGGCCTGCCC CATGNATTTA ACAGTAATAC AGGAAGCATG GCAGGCACCA 60
TGCAAACCAA GGATGGATGG TGCAGTCCCT GTGTCAGTGG GCGGTGGTTT CCTGCTGGCC 120
TGGAATCACT CATCACCTGA TTGATTGGCT CTGTGGTCCT GGGCAGGTGC CTCATAGGTG 180
TGTGGNTATG ATGACGTTTC NNTAAAATGT ATGTNTTTAA CANATACTNA ATNGTATTAN 240
GGTCATGTAC CAATGGNTTT NATAATGTTT NTN 273

SEQ ID NO:5958

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07074

SEQUENCE DESCRIPTION:

GATCAGAAAG NATTAATAT CACTACCACA TGAGTTAAAA CAAAAATGG AATAAAAAANC 60
AAAAGTGGTG TCTATGTTAT CAGTGGNTTA CTTGATAGGN CATTNAN 108

SEQ ID NO:5959

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07075

SEQUENCE DESCRIPTION:

GATCTTCACA AGGNTTGAT TGGCCACATC CACGTCCTCC GAGCCTACAT CAAGACCCAA 60
GTGAACAAAG AGCTGGAGCA GCTCCAGGGG CTGGTGGAGG AGCGGCTCAA GGCCAGCGAG 120
GAAAGGCTCA GCAGCAAGTT GACTGCACTA GAGCGGCCCT TCCAGCTACC TCCGGGTAAA 180
GGCAAGAGCA AGACCAAGTG ACCCCAACA TTTTCCCCAA TAAAGGTCTG GGCCAGANTG 240
GCACCATCCC TGCAAA 256

SEQ ID NO:5960

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07076

SEQUENCE DESCRIPTION:

GATCTAGTCA TCTGGTTAAG GATTTTAAGC AGATGCAACT ATAAACCCAA GAACTGTAT 60
TACTATTACT GTTGGTCATA CTAAACCTGT CTATTCCTG AAGTATATGA CCCACAAGGA 120
TGTGGAATAA CTAGGAGAAA CTGTTTTTGT AACTGTACA TCCTTAGTAT TTTACACGT 180
ATATGATAGG GATGAACATG ATTTNCTTC GTACAGACAG CTTANNTAAN GCACTATGTC 240
ANTCTGCAAA ANAGNNNNNN NN 262

SEQ ID NO:5961

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07079

SEQUENCE DESCRIPTION:

01756

GATCTCAGCT CACTGCAACT NNTGCCACCT GGGCTTAAGC CATCCTCCCA CTCAGCATC 60
 CCAAATAGCT GGGACTGCAG GCACACACCA CCACACCCAG CTAATTTTNG TATTTTTTGT 120
 AGAGACGGGA TTTCACCATG TTGCCCAGGC TGGTGTGAA CTCATGAGCT CAAGTAATCT 180
 GNTGGCCTTG GCCTCCCAAA GTGCTGAGAT TATAGGCGTG AGCACTGCAT CCAGCTCACT 240
 CCTNATTTCT TTCTAGCCCC AAAGGGGTTG AGTCAGCAAA TCCTNCAGCC TTTN 295

SEQ ID NO:5962

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07080

SEQUENCE DESCRIPTION:

GATCCTGGAA TGTTTGCTGG AGAAATTTAA AATACNGGGG TTTTTNTTT AATGGTGCCT 60
 ATTTAGAGTT GGAAGTTGAA CAGCTGTTGC ATTACATACT TTTCCTTTT NATTGAAATT 120
 TTGAAATCAA ACGTCTTGAT TTTCCTNTCC TGTTGAATTG CTATGTNCAG GATGTCCTAG 180
 GGGGTGGGGG CAGGGACTCT TTTCGTAATA AGCACTTGTN TTATNTGGTG TGTGTGGNGT 240
 ATAAANGGCT ACACCCTTAT TNTAAAAANN NN 272

SEQ ID NO:5963

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07081

SEQUENCE DESCRIPTION:

GATCTGTCGT CTTCAAAAAA ATGGCAAAGT GGGAAATGTG GGAGGGGAAA ACACTTCAGA 60
 ATAAAAGAGA TTAAAGAGAT GTATCAACAA A 91

SEQ ID NO:5964

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07082

SEQUENCE DESCRIPTION:

GATCAGGTTG TCTGCATTTG TTGGTGTAAG TGAACATCAT CACAGTTATC CTGAGTTGAG 60
 TTAAAGCCAA ATANATGCAT AGAAAAGGT CTTCCTATTA ATGGAAGANG GTAATTTTAA 120
 GGATGTGTAT TATTCAGTT TTGTATGTTT AACTNTNATT NAATAAAGTG TTTTAAAAAT 180
 CNCAAAAATN ANNN 194

SEQ ID NO:5965

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07083

SEQUENCE DESCRIPTION:

GATCTGCCTG AAGAAAATAT CTGTTTCTA TATAAAAAA TTTTAAAAA TAATTGTAAA 60

2153480

GTTAGATTTA AAATTGTAAA ATATAAAATC ACAAAGGAAT GTACCTTATG AATGTTGTTG 120
ACATTTTATG AAATTATGTG GATTCATATT ACTGTTACAA GATAGANTTG AATGCAAAAA 180
GTCCAAAACC TCAATAAANT TTGAGGAAAA CGTGTATTATTA TGTAATTGAN NTANAANCAT 240
TTTATAATTG TGCANGTNAN NNNNAN 266

SEQ ID NO:5966

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07084

SEQUENCE DESCRIPTION:

GATCCTTTTN AGTTTTTCCA GGTGAGAAAT CCTATCAATT ATGTNATAAT NATATGTTTT 60
CCTNTTCAAA ATTTATAACA TAATTCCTGA CTGCATGGGT TAAACATTN CATAACAGTG 120
CTAAATAATA AAGGTGGCAG TGGCATTITT GTCTTGTTTC TCATTTTAGC CAGAATGTGT 180
TTGCTACAGC AATTCCAAAT TGTGTTTTGT GAAAAANAAA TATTCTNCTT NGGAGACANG 240
GNNTNTACAT TTGCAN 256

SEQ ID NO:5967

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07085

SEQUENCE DESCRIPTION:

GATCAGAACA GGCTTAAATT GATGCTATAG AACCAATTAC TCTGTATTAT CTTTGCAACT 60
CTTTTGTAAG TCTAAAATTG TTTGGNAATA AAAGTTTATT TTAAANNNTA AAAAAANNN 119

SEQ ID NO:5968

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07086

SEQUENCE DESCRIPTION:

GATCTTCTAA TCGACAATCT ACATCATAGT GACCACCAGT AATCACCTGT AAGAGATTAA 60
AAAAGAAAAA TCACTGTGAA AAGTGTGAAA AATTAATCAG ATTTAATCAG ATTCCTATT 120
AAAATGGCAA TAAGGTGATG GGCAAA 146

SEQ ID NO:5969

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07087

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTGTGCGGC ATCTCATCCC CCACTCTNTC CTTTCTTGCT CCTGCTTCCC 60
CCTTATNACT TGCCAGCTCC TGCTTCACCT TCCACCATGA GTAAAAGCTC CCTGAGGCCT 120
CCCCAGAAGC CAAGCAGATG CCAACACCAC GCTTCCTGCA GCCTGCAGAN CTGTGAACCA 180

01758

ATTAAACCTC TTTTCTTTAT AAA

203

SEQ ID NO:5970

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07088

SEQUENCE DESCRIPTION:

GATCTTCCAA AAATTTATTA AGTGTTTACT TTAAAGTGG AAACAATGTT TTTAAGAGGT 60
 GATATAAAGA AA 72

SEQ ID NO:5971

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07089

SEQUENCE DESCRIPTION:

GATCCCTAGC TTGTTTTCTG TCAGTCATNC ATTGTAAGTA GCACATNGCA ACAACAATCA 60
 TGCTTATGAN CAATACAGTC ACTAGGTNTT AGTTTTNTTT AAATAN 106

SEQ ID NO:5972

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07091

SEQUENCE DESCRIPTION:

GATCTGTGTG ACTGATGGGC AGGGCTCAAT GATGCCCAT GAACTGAGCT TACTGCTCAC 60
 ACCACTGACC TGGACCCNAA CAAAAAGCTG ATTGTCTTTT TAAAAGTTAT TATTTTGCCC 120
 TGAGCAAATT GCATTTTANT TGGGGCAGTT GGAGTGTTGA NTTCTGGCA GCATTGTGAA 180
 GNNGACCNNG GTGGANGTTT NCTGTCCCNG GN 212

SEQ ID NO:5973

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07093

SEQUENCE DESCRIPTION:

GATCTACCCA CCTTGGCATC CTAAAGTGCT GGGATTACAG GCGTGANTAC CAAGCCCGGC 60
 TTTTTTTGTT TTGACATGGA GTTTCGNTCT TGTCACCCAG GCAGGAGTGC AGTGGCGTTA 120
 TCTNGGTTCA CTGCAACATN CGCCTCCTGG NTTCAAGTGA TTCTCCTGCC TGAGCCTCCC 180
 ANGNACCTGG GNTTACAGGT GCTCCNACCA AGNTN 215

SEQ ID NO:5974

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07094

SEQUENCE DESCRIPTION:

GATCTGGAGG TTTACAGAAG CCTTTACCCA TCCTGAGACT CAGTTCTGCT GTTGGTCTNC 60
AGAGAAGTGT CTGCACCTGC TGAGANGNAA TCACACCACT GCACTCTAGA CTGGGCAACA 120
GNGCGAGACT CTGTCTCAA 140

SEQ ID NO:5975

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07095

SEQUENCE DESCRIPTION:

GATCTGTTGA AGAACTCAGC TGCTGGAAAC CATGCAAAAT GTTTGAATT GCCCTTAAAA 60
TATGGAAAAT GTTTCTGAA TGCTTTATAT TCTTCTGCT GTAAATTAAA AATGANGAAA 120
ATTTCCCAT AAA 133

SEQ ID NO:5976

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07096

SEQUENCE DESCRIPTION:

GATCCCTGCC CTTTGGCACA TCCACTGAAA GGCCAAACAG CAAGTCCGAG TGAGTTTAA 60
ATATTAATTA ATCACCCTTT ATTTTACA CTTGAGAGTG ATTGTAATAA AGGCTGTCAT 120
TAATAAACTT GGTCTACCT TAAA 144

SEQ ID NO:5977

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07097

SEQUENCE DESCRIPTION:

GATCTAGAAA TTGCCCTCCT TTTACCCCTA CCATGAGCCC TACCAAAACC AAATTANCC 60
CTGGGCAACT AANTAAGGTT ATTGGACATN CCCTTCTNAA TTAATNATCC AATN 114

SEQ ID NO:5978

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07098

SEQUENCE DESCRIPTION:

GATCTGACTT CAGACAGAAA CCAATACCAG CTCCTTTTC CTTTAAACNT TTGAAGAGTG 60
TTGATTTGTT ACTATATTAC GTATGCAAAA CTGGAGAGNG TATNGNTNGA TN 112

2153480

SEQ ID NO:5979

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07099

SEQUENCE DESCRIPTION:

GATCCGTCCC TAACAACTA GGAGGCGTCC TTGCCCTATT ACTATCCATC CGTCAATCCG 60
TAGCAATAAT CCCCATCCTN CGATTATATC CAAACAACAG ANGCATTGAT ATNNTNGCCC 120
NACGTAAGGG N 131

SEQ ID NO:5980

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07100

SEQUENCE DESCRIPTION:

GATCATGTAG GACGNGGCAT CCTGCCCTG GTAGAGAGGA CGAATNTTCC AAAACANTGG 60
GCTCTACGGN AAAAGAAGT AGGTTAGTCA CCTTCTGGAC CCTGTCTAAC TCGTTTGCTN 120
AANAGN 126

SEQ ID NO:5981

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07101

SEQUENCE DESCRIPTION:

GATCTTATTT AACCAAAGAC TATTTTCATTC CTGATATGAT TTGTGTGCTT GATTAAAATG 60
GNANTTAATG ATATTGAAA 79

SEQ ID NO:5982

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07102

SEQUENCE DESCRIPTION:

GATCAACAGG CTTATTAGAA GAATGAACCTA AGGTGAGAGA CCTCATCCTG AGAAAGGTTG 60
AGTTAATGTT AGAGTATAAG TGGTGGTAAT CTTGAATACT TTTCCCATTA AATATTGATG 120
GGGGTTTGAN TTTTAATCAG TGCTTTTNTG GGNAGTGGGG GTCAACTATC TTAATGATTA 180
CAGTTGGTTT GTTTACTGCT TTTGAGGACC TTTCTGGAGG AAAGGAAAAG CCTGTTTGG 240
GGAGTCTTTA AAGATGGAAA TTGGGTGGTC N 271

SEQ ID NO:5983

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

01761

CLONE:HUMGS07103

SEQUENCE DESCRIPTION:

GATCAATATG TGACTGGAAC CATTGGCGAG GATGAAGATT TGATAAAGTG GAAGGCACTG 60
TTTGAGGAAG TCCCTGAGTT ACTCACTGAG GCAGAGGAGG ANGNATTGGN TTNGAACCT 120
GCNTN 125

SEQ ID NO:5984

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07104

SEQUENCE DESCRIPTION:

GATCTNATTG TATTGTCGAA GGACTATTTT TNAACCTGTC CAAATAAACT CTGCAAAGNA 60
TTCCACAAG AAA 73

SEQ ID NO:5985

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07105

SEQUENCE DESCRIPTION:

GATCCTGCCC TGCTCTCAGC CATAGTGAAG GACCAGCCCT AGGAGTCTGC GAGAGCCTCC 60
TTGGTTCCAT CGTGAAGCCA TAAACAGGAA TGCCTTTGGC AATAGCCTTG AGCCTAGAGG 120
GCCCTCTNAT GCCCCACTGA GGTGCTGTTG GTTATTGCT GGCANCGTGA ATTCTCTCAG 180
GGGTCTAGGA GGGGCATTTT GGAGACTGCC TGACANCACC NCTATCCCCT GCCTCCCN 240
CTNAGAAGAG GGTGAAGNA TGAAATGAAA GCTATGGGNC TTTTGGGAGG NTAACCCAGN 300
GTCTATTCTA GGGTTNGNGG AAGTGNNTAA N 331

SEQ ID NO:5986

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07106

SEQUENCE DESCRIPTION:

GATCCCCTGG CCTGGTGCCC AACTGCCTC GCAAGCGCTC GCCACCCTCA CGTGGCTCAC 60
CTGCTGTTGA GCCTGTGCT GTCAATAAAC GGTGAGGA TTGCAA 107

SEQ ID NO:5987

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07108

SEQUENCE DESCRIPTION:

GATCAGATAT ATCCACAACG NGTTTAAGAT TTTCAATATT CTTAGAGAAA ATCAATAAAG 60
TCAATAACTA CTCCACCATG AAA 83

SEQ ID NO:5988

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07110

SEQUENCE DESCRIPTION:

GATCAAAAAT TGTGGACATA TCTGCAAATN ACTACCTATA GCCTCATGAA AGTACATTTT 60
ACAAAATGTA AANNCAATG AACACTAAAT TTAAGAGCAG TTACAGTGTG ACTCACTCAT 120
GTTTAAAAAA ANTCGGNGAG CTAAAAANTA CGTCTAN 157

SEQ ID NO:5989

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07111

SEQUENCE DESCRIPTION:

GATCGAGTCT GCTCTGACCT CTCAATCTCC TTTCTCTCCC AGGCTGCTGC TCCTGCTGCC 60
CTGTGGGCTG TGCCAAGTGT GCCCAGGGCT GCATCTGCAA AGGGGCATCG GAGAAGTGCA 120
GCTGCTGCGC CTGATGTCGG GACAGCCCTG CTCCCAAGTA CAAATAGAGT GACCCGTAAA 180
ATCCAGGATT TTTTGT TTTT TGCTACAATC TTGACCCCTT TGCTACATTC CTTTTTINCT 240
GTGAAATATG TGAATAATAA TTAAACACTT AGACTTGAAA 280

SEQ ID NO:5990

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07112

SEQUENCE DESCRIPTION:

GATCTCCAAG CAGGAATATG AGGAGGGCGG GAAGCAGTGC GTGGAGCGAA AGTNCCCCTG 60
ATGGCACTCC TCCCACACA CCTGCTCCA AGCTCAGATG GAAGTCCCTT AACCCCATG 120
CCACATTGCC CCCCTCCTCC TTTCCCTCTT GTCCTCATTG ATGGTGATGT TTCTGGGTTG 180
AAAGAAGTAA AAATGTTTTA AGAAA 205

SEQ ID NO:5991

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07113

SEQUENCE DESCRIPTION:

GATCTTTAGC AGTCTCTTCT AGTTTCCCTG GATTTCACTG ATTTATTANT TAGGGAAAAAT 60
GAAAAGAGGA CCTTNTGTG CGCCTGCACT GCTTACTGGT AAATAATAAC AAATTATGC 120
TGCCAAA 127

SEQ ID NO:5992

2153480

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07114

SEQUENCE DESCRIPTION:

GATCGCTTGA GCCTGGGTAG AGGCTGCTGT GAGCTGAAAT GCGGCCNCTG CACTCCAGCC 60
TGGGTAACAG AGCGAGNCCC CGACTCAATA AATAAATAAG GATGGATAAA TTGTAGCGTA 120
TGCACCATTC ATTATGCTAA GACATTTTAA AGTAATTATG AGAAACGCTC TACTAATGAT 180
TTGTTTTTAT TTGTATTTN CTGCTTATTA GACAAATATA TNCTCATTTT AAAANGGAAA 240

SEQ ID NO:5993

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07115

SEQUENCE DESCRIPTION:

GATCAGAACG AGCTGTTAGA ATTCAGAGTG CTAGAACTCG AAGTAAGAGA CTCTATCTGT 60
TGTAACCTCT CAAACGGAGC AGACATTCTC TTTGAACCCA AACTGAAATT CATGTAAAGC 120
TCTCAGATGT TTTCAAGCAT GTGTAAAGGG GACATGTTAT AGTTTCTTTC TTTCTTTCTT 180
TCTNTNTTTT TTAAANCTG TATGTNCAGA ATANTTNCNC TGCCTTAATG TGTNCTGGNG 240
ACCGTGCTCA CCCAGGNCTN TGGCCATGTN CCAGAGCTAA TATATTTNTT GCCTATGGCT 300
TNGTNTGGCA CTTAATGAAT ANTTGTGN 328

SEQ ID NO:5994

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07116

SEQUENCE DESCRIPTION:

GATCTTCAAA ATCCAGGAGG GAACCGAGAT AACACAAGTA CAGGTGTGCA AAATTACTTA 60
GTAAACTAT TTNTTCTATT ACTCCTTTTT TGCAAGTACA TACATTAAAT GATAANTTNA 120
TTGTGAAGTT AATAAANTGC CCATAGCTGT TCTATTACCT TCAGAACTA TTTCATAAT 180
TGANAAANAC TTGGNGTAAG TACATGTGTT ATATANCACC TACCCTAGNT GCTCAAGTGC 240
GTNNNGGAGN 250

SEQ ID NO:5995

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07117

SEQUENCE DESCRIPTION:

GATCCTCCTT CCTCAGCTAC TCAGGAGGCT GAGGCAGGNG AATGGCATGA ACCCAGGAGG 60
CAGAGCTTGC AGGGAGCCAA GATTGTGCCA TGGCACTCCA GCCTCGGCCA CAGAGCAAGA 120
CTCCGTCTCA AA 132

01764

SEQ ID NO:5996

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07118

SEQUENCE DESCRIPTION:

GATCCTATAG GGAGGNCATT TCCTGTCCTG GAATTAGTAT TTCTAAAATG TGNATAAACT 60
TGTTTTATAA AAAGCAAA 78

SEQ ID NO:5997

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07119

SEQUENCE DESCRIPTION:

GATCAGAAAG TGTTATTTAA CAGAAACTAC ATACATTTTT NATGTCTCTC TGGACCCTTT 60
GATTCTAAGT AAATTTNCAG TAAGTNAGCA GTAATAGACT ATCCTNTTCA NCTATGAN 118

SEQ ID NO:5998

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07120

SEQUENCE DESCRIPTION:

GATCAAAAAG AGGAAACTTG AAATGTGATG GTGTTTATAA TAAAAGATGG TAAACTAAA 60

SEQ ID NO:5999

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07121

SEQUENCE DESCRIPTION:

GATCTCCTTC AGAATTTTGG TCTTGACTTT GAATCTTTGC CTGTTTGTCT AAACATTTGA 60
CTAACATTCT GTTTGAATTT GGAAGTATTC TAATACAAGA TTTGAATAAA GTTTATCCTT 120
AAATAAA 127

SEQ ID NO:6000

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07122

SEQUENCE DESCRIPTION:

GATCCTGGAG CTGGAGCATG AGTGTCTGAC AATCAGAAGC ATGATGTCCA ATGTCNNGAT 60
GGCCAGAATG AATGTAATAG TTCAGACCAA TGCCTGNCCA CTGCTCCTTT ATGACTGCAC 120
TTCTAGCCAG TAGCTCTGCA CAAGTNAGCT CTGTAGAAGT AGGANCTTGG GCTTAAGTCN 180

TGNGCTNTNT CTCCN

195

SEQ ID NO:6001

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07123

SEQUENCE DESCRIPTION:

GATCCCAGCA TGGGGTGAGC ATGAAAGAGT GGCAAACAGA GTGGCATAAG ACAGATAAAA 60
 TACAAAAGGC AATTACAAA GGACCAGGAC CGCAGAGGCA GAGATAAACC AGTGGGCTCA 120
 GACTTCTGAG CGTCTCAGAN AAANNNAAN AAANN 156

SEQ ID NO:6002

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07124

SEQUENCE DESCRIPTION:

GATCTGTCTA GCTTATTAAGATGAACTG AATTGGAAAA ATAGCTCCAT TTTTGGTG 60
 TTGGGAAGCA CAGTGACCAA AAAAGTTGTA TGGCTGCTTA TTCATTAGTC TTCCTACTG 120
 ATGTCAAATC CATGGTACCT AGAGTTAAAT AAAATTCCAA TGCTCTTACT CTTTAA 177

SEQ ID NO:6003

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07125

SEQUENCE DESCRIPTION:

GATCCAGTTG GGAATAAGTG ACATCGTATC GGTTCCTGTT CAGATGACAT GGGGAAGATG 60
 ATGGTTCAGC CACTGGTACT ACGAGAATGT TTGTATTACC CACATTTGAA TTNATTTGCT 120
 ATGATTTTNA TGAAGATTAA AAATATATAC ACAGTTCCTG GTATGTTGAG GTTGTCTTTA 180
 TTATTCTTAC TCAGAAAGGA AAATTTGTAA ATATGTTTGT GTGGCTCAA CTGATACTAT 240
 TCTTACANCT GGANCATTGA AAATNCAGAG GGCTGTATT GGNTATTAGN GAGGNCTCCG 300
 AATGN 305

SEQ ID NO:6004

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07126

SEQUENCE DESCRIPTION:

GATCCTCAGG CTGGTATACG GCGCAATGTT GCATCAGCTN TGGGCAACTT GGGNCCTGAA 60
 GGTTTGGGAG AGGAGCTGTT ACAGTGCGAA GTACCCAGC GGCTCCTAGA AATGGCATNT 120
 GGAGACCCTC AGCCAAATGT GAAGNAGGCT GCCCTCATTG CCCTCCGGAG CCTGCAACAG 180
 GAGCCTGNCA TCCATCAGGT ACTGGTGTNC CTGGGTGCCA GTGAGAACT ATCCTTGCTC 240

TCTNTGGGGG GNTCAGTCAC TGCCACACAG CAGTNCTAGG CTTGNCTGT GCCAAAACAA 300
TTGNANN 307

SEQ ID NO:6005

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07127

SEQUENCE DESCRIPTION:

GATCTCTCTC CGGCCCTCTA GAAGCCCTCT CCTCACTGCA GCCCTGGTGC TCTGGGGAAG 60
GAGGGGCATT GACAGGTGGT TTGACTGTTT ACCCAGCAGC CCCGCTTCCC CACTGGTTTC 120
TCTCCTGGCT GCCGGCGGNG GTAGGCTGGG AAAGCTTCCC CNTCACCTAG GNCGGGCCAG 180
CACCGGCCNG GGNCNNAAGA GGTCCNCTNN ATCCN 215

SEQ ID NO:6006

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07128

SEQUENCE DESCRIPTION:

GATCCGAGGG GAAATNTTTA GAGCCCTCAG GAGGAGGAAG AGACCGAGTT TTAGGAAAAA 60
CATCAAAGCT GGATAGGTTG GGCAGAAGAG CTGGGGATAG CATTAGAGA GGCTGAGAGT 120
CCTGGGTCTT GGNTTATCAC GTGTGAGNGA AACNGGAGGT TGCTANTTGT AGGTGGGCGT 180
CAGGNTNGA GTGNTGCTTC CAGANGTTTC TGCAAGTGGG CCGGGTCTAA GNTAGGGCAT 240
GTTACGCCAG ANGTTTNAGG GNCCTAGGT AGN 273

SEQ ID NO:6007

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07129

SEQUENCE DESCRIPTION:

GATCACAGGG AAAAACCGAC CGAGCTCAGG AAGCCTAATC CAGGTGGTAA CCACAGAAGG 60
AAGGACGGAA CTCACCCAG CATATTTTGA GGCCTCATCT CAGTGCCTAT NAGGGGCCTG 120
CCAGNAAGGT CACTAACCTG GTCTCAGTGT GGCCTTGTC AGCCTTGTGT TTNCTGTAA 180
CCCCGNTTGG TGGTACGAGN TATTGNNTCC TATATTACGG ANACAGANCC NTGNTTTCGG 240
NTTTGTCATN 250

SEQ ID NO:6008

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07130

SEQUENCE DESCRIPTION:

GATCCCAGTN AGTCATGAGC CTCAACCCCC TCCAGCCCAC TGGGGCTCTN ACCTCCACAT 60

GTGGGTAGAA GCTTNCCTGC CCCCTTTNCC TCCAGGAAGC CCTNAN

106

SEQ ID NO:6009

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07131

SEQUENCE DESCRIPTION:

GATCGCCTGA GCCCATGAGG CCAAGGCTGC AGTGAGCCAT GGTACGCCA CTGNATTCCA 60
GCCTGAGTGA CAGAGCAAGA CCCTGTTGAA AACAACAACA ACANCAAA 108

SEQ ID NO:6010

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07132

SEQUENCE DESCRIPTION:

GATCTAAAC TATTTTCTG TATAATATT ATTTGCCGAA AGTTTGTTTA TATTNAGAAG 60
TCTGACTATG ATGAATAAAT CTAAATGCT TTGTTTAATT GAAAAACAAA AATCACCAAT 120
ATCCAAGACA TGAAGATATC AGTTCAACAA ATACTGTAGT TANGNGACTA NCTCTCCACT 180
TNTATGGGAA CTACATTTC CTCTTGGTTT TCAGGATATA GCAGCACTTC ACCGAGATAT 240
TCTTTCAGCC ATANCACTGG TAACATTCT NCTNAATCTN TCTGTAGCAC TTANAGGANT 300
TCCCTCATTC GNTNCCTTTC AGTGTNNCG GGNGN 335

SEQ ID NO:6011

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07133

SEQUENCE DESCRIPTION:

GATCCAAAGT AGCTGGGATT ACAGNCATGA TACCACANCA CAGTCATTG AATNTATCAT 60
TACTTAGTAC TCNTATTTTT TTCCCTGCTG CTCTTTATGC ANTGAAGTCC TN 112

SEQ ID NO:6012

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07134

SEQUENCE DESCRIPTION:

GATCTCCTTT TGATTAATTT ATAGAGTTTT TGATTATATG TCTTTGTATG ANCTTTTATG 60
TTATTGCTCA AATATCACAT TTNATATTTA TAACACAGGC TACTGATGTT GACATTTTAA 120
CAGTTCAAGT GAAGTGTAGA AATCTTACCC ATTATCCCTC CCTATTAAATN NNNTANTGGT 180
CTTAAATGTC TTTCCCTACA TATATTTNTA ACANGTATAT GAGATAGCCT TACAGTTTTG 240
NCTTAACTA TCAATCATGC ATTAGGNNAC TCAAGNGGN 279

SEQ ID NO:6013

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07135

SEQUENCE DESCRIPTION:

GATCTGGGAC TGGCAGGTTA TTAATCGAGA TACACTTGTT AGGAGGGACA GGGTTCCCT 60
AAGGCACTTT TAAAGATACT CTGTAAGAAC CATTACAAT AAAGTTACTG TCAATCAAA 119

SEQ ID NO:6014

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07136

SEQUENCE DESCRIPTION:

GATCGAGGTT GTTTGCAACG ACCGTCTGGG GAAGAAGGTC CGCGTTAAAT GCAACACGGA 60
TGATACCATC GGGGACCTTA AGAAGCTGAT TGCAGCCCAA ACTGGTACCC GTTGGAAACAA 120
GATTGTCCTG AAGAAGTGGT ACACGATTTT TGGGGACCAC GTGTCTCTGG GGGACTATGA 180
AATCCACGAT GGGATGAACC TGGAGCTTTA TTATCAATAG ATGAGAATGC TCATCTTCCT 240
GNTGNGGGNT TTNCTNTTCG NTNCTGGATN CNCCACACTG GGGNTAGATG CTTGNTTGTA 300
AANNCTTNC CTTN 315

SEQ ID NO:6015

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07137

SEQUENCE DESCRIPTION:

GATCCTAAGT AGAACCAGGT AATTGTCTCT TTTTCTAATA AGGAATTTGG GTAATTTTNA 60
ATTTTNGTT TTTTAAAAA TAACCTAGAC TATGCAAAAC ATCAAAGTGA ATTTCCCATG 120
ANTGTTTTTA ATATTCAT CTCAACATTG TGATATATGC TACTAAAANC CTTTNCATAT 180
ACATCTNACC TCATTTTCAGG TGANTNATTN TAATCTNN 218

SEQ ID NO:6016

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07138

SEQUENCE DESCRIPTION:

GATCAGAGCA GAACTAAATN AAATTAGAAT AAAGTTAAAC AATTAAAAAG AAA 53

SEQ ID NO:6017

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07139

SEQUENCE DESCRIPTION:

GATCGACTTA TACCTATGCT AAAGTTAACG GTCTGAGAAG GTAGATTAGT GGTTCCTAG 60
 GGCTAGGGAG TGGGTTTGGG GGTGGGGAAT AGAAAGTGAC TGGTCATGGT TATAGGCTTT 120
 TTTGTAGCAC CATAAAGATA GTTAAAAATT AGATTGTGGT GGTGATTGCA CCACCCTATG 180
 ATTTGCATGG TATGTGANTT ATATCTTAAT AAAGCTGTTT AANANGTCAA A 231

SEQ ID NO:6018

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07140

SEQUENCE DESCRIPTION:

GATCCGCTCC TAACCTGCGA CCGCAGCTGA CCTTCTCCTG CCACTAGCCC GNCCCTGNCC 60
 TTAACANACG GGATGAAGTT TCCTTTTCTG TCGCGGGCGC TGTTCCTATA GGCAGAGCGG 120
 GTGTNAGACT GAGGATTTCG CTTCCCTCC AAGACGCTGG GGGTCTTGGC TGCTGCCTTA 180
 CTTNCNNGGG GTCCTGCTG ACTTCGGAGG GGC GGATGCA GAGCCAGGG NCCCCACCGG 240
 AAGATGTGTA CAGCTGGTCT TTA CTCCATC GGCAGGGCCC GAGCCAGGG ACCAGTGACT 300
 TNGGCCTGGA CCTNCCGGTC TAACTGCAAG CATCTTCCCC AGGGCAAAGG NTTTNTGGGG 360
 GAACGNGAGG TTTNATNTTN 380

SEQ ID NO:6019

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07141

SEQUENCE DESCRIPTION:

GATCTATTTT GTGTGTTTTG AAACCTAGGT GCAATNTCCC CTGGAAAAAG CTAAAGAAAT 60
 GTATATGTTT AATNACATTT TAAAAATAAA TATTATATAT ATGTAAA 107

SEQ ID NO:6020

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07142

SEQUENCE DESCRIPTION:

GATCGATTTG ATAAAATTAA ACAAAGTGCT TTTAATGGAA AAAAAAAGA AA 52

SEQ ID NO:6021

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07143

SEQUENCE DESCRIPTION:

GATCCACTGT AATAGTCCAG TTTGGGGTGC AGACAAGTGT GAAGAAGTTC TGGAAAAGAC 60

AGTGAAAAAC TGCTTGGCCC TGGCTGTTGA TAAGAAGCTG AAATCCATTG. CATTTCATC 120
 CATCGGCAGC GGCAGGAACG GTTTTCCAAA GCAGACAGCA GCTCAGCTGA TTCTGAAGGC 180
 CATCTCCAGT TACTTCGTGT CTACAATGTC CTCTTCCNTC AAAACGGTGT ACTTCGTGCT 240
 TTTNGACAGC GAGAGTATAG GCATCTNTGT GCAGGANATG GCCAAGCTGN GCGCCGNNN 300
 NGGCTNGNC AATGNCAGGA CCNGNTTGCA CCATGGTACC GNACCTNAG TTTNN 355

SEQ ID NO:6022

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07144

SEQUENCE DESCRIPTION:

GATCTTGAG CTNCTGGAGA AGCAGGNTG CNAGCTGCTC AACCGNTTCC AGGACTAGCC 60
 CCCGCAGGCT CGTGCGCCAC CCCGTCCTGG TGAATAAACG CACTCCCTGT GCCTCAGACA 120
 AA 122

SEQ ID NO:6023

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07145

SEQUENCE DESCRIPTION:

GATCCGATAA TGTACCATGT GCCTGCTGGT TTGGCCTGTG CTGTTTCTGC TTTTGGCCCC 60
 TNACTTCCTG TGCTAGAGAA AGCCTTATTG GTGTTGGTGG TGGTGATGGG AGGGAAAAGG 120
 GTGGTCCTTT GGGACTCTTG ATAAAAATNT TATCATTGA AA 162

SEQ ID NO:6024

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07146

SEQUENCE DESCRIPTION:

GATCCAGGCC AATGCATGGC TATTGCTGTA AATCTTGATG TTTATTTCTG CCTTGTAAG 60
 TTCTATCAGC GCCTACCTGG AATTTAAAT TCAGTAGACA AATTAATTGG TCCTCTGCAC 120
 AACTTTTTTA ATAAGTAGAT TATTTNCAA NGGGNTTNGA NCAANTTNA TTGANTCTN 179

SEQ ID NO:6025

LENGTH:403

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07147

SEQUENCE DESCRIPTION:

GATCAGAGTG GCTGGAGCAG AGTGAATNAG GAGGGAAGCT GAGTAGCAGG TATCTGAGAA 60
 GCAATGCAGC CCGCAGCTTA ACTTCAACAT GCTTTTAAAC TTTTNNCCA TTCTNTTGAG 120
 TTTCAAGATA TAACCTTGAG GAAACTCAAA ATCCTTTCTC CTTAGCCTTA AAATAGACTC 180

CACGTCCCTC CCCTTTNTCA CCAGATATGC TCCCTTTNCA TTTATCTAAC TGTATGCTAC 240
 TATTTAATTG TGTGATGTCT TAGANGTTTC AGTGGCTAAT CTGAGACAG ACCAAGNCTG 300
 GAGACCCAGC TGGCAANCCT TCCANNATT ANCTTCAAAA TTGGCTAATT NANCAACCNG 360
 GCCCTTNGTT NNAAATTATG GTNATTCCGG GGGNCCCGGN TGN 403

SEQ ID NO:6026

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07150

SEQUENCE DESCRIPTION:

GATCTTGCTG CAGCCACAGT GCAGTCCACA TTAACCTAC AGACCAAACC ATTTGTATCT 60
 GGCATCACTT ACTAACACAC GACATGCAGA AAAGCCGCAT GTNGTGTGTT AGTATACANG 120
 AAGGAATAGA AAAGTATAC TGTTTTAAAT ANTCTGTAAT TTCAATTTT TTNTTTTNN 180
 GCTGAANTGG GTCNTNTN 198

SEQ ID NO:6027

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07151

SEQUENCE DESCRIPTION:

GATCATAACT CTTTNTTGAA CTAGAGTATT TTTGCAGCAT TCCTTGTCAT CAGAAACATG 60
 GTTAAAGTTT AAAACTAGAA GCAGCAGAAA ACTAGCTTGT AAAATTTATC CAAGTAGAGT 120
 GCAGGCTAGG CTGTCTTGGG GAAATAAACA TTAAANCTTA AAGCAATGTT TTACATGGAA 180
 ANNNNANNNN 190

SEQ ID NO:6028

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07152

SEQUENCE DESCRIPTION:

GATCTTGTCG CATTNTTGAC CTTGGACCTG CTTGGTTAAG GAGGGAGTGG GCCAAACCAG 60
 AGTGCCAGGA GCTAATGGAG CCAGGCCTGA CTCCTAGGAG TGGTCCAAAG GCCTTCAGCC 120
 TAGATGGTGC AAAGNTGGGG CCAGCCTGTT TTCACCGGNA CCNGNGCCTG TGACACCAAG 180
 ACCCACCCCA ATCCAGNNT TNACACAGTA TTNTCCN 217

SEQ ID NO:6029

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07153

SEQUENCE DESCRIPTION:

GATCGGAGCC TACTTCCCTC CGCTCAGCCT NGAGGAGCTG AGNCCCTACT TCAGGGACCG 60

TGGGTGGCCT CTGCCCCGGC CCCTCTAGAC GTGCACCAGA AATAAAGGCG AAGACCCAGC 120
CCCTCGGCGG CTCAAA 136

SEQ ID NO:6030

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07154

SEQUENCE DESCRIPTION:

GATCCAAACC CAAGTCTTGA GCAATGTTTT TCTCAAAAAG CTGCTATCCA ATNATATAGG 60
AAAATACATT GTGTTTTCCT AAACACACTT TTCTTTTAA ATGTGCTTCA TTGTTTGATT 120
TGGTCCTGCC TAAATTCAC AGGCTAGGNC AATGAAGGCT GAATCANNNG CANTTCATCC 180
ACCAATATCA TGTGTAGATA TTATGTATAG AAAGTANAGT AANTTATGGC TCTAACTTCT 240
GTGTGCTGT NTATCCTTGN TTTTNTCGG GGGTGNTN 278

SEQ ID NO:6031

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07156

SEQUENCE DESCRIPTION:

GATCAGTTGA TGTACACTTG TATTATTAAA GCACTCAATA AATCACTGTG GCTGATAACT 60
GCAAA 65

SEQ ID NO:6032

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07157

SEQUENCE DESCRIPTION:

GATCCACATG GCACGGTGAC TGTAAGTAAAT GCATTTTATA TGTCAAAATT CCTTANATAG 60
TAGATTTTAA ATAATCTCAC CACAAAAAAG TAGATGTGTT GGTGATGGAT ATCTTANTTN 120
GCTTAANGTA NTTGTNTCAC CAATGTATAC ATNTATCAGN N 161

SEQ ID NO:6033

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07158

SEQUENCE DESCRIPTION:

GATCATCTTT ACAGTTCCTC GGGAAAATNT GAATGTCCTG CGTTTTGTTT TCTTTACTGT 60
ATGAAAACAG GAAAATAAAA GAGAAATTTA GAAAATACAG CTCATTACAA TAAANNTNTT 120
GGNTTTCAAA 130

SEQ ID NO:6034

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07160

SEQUENCE DESCRIPTION:

GATCTGGCCC AAGCTGGGCT CCCTNNAAGC CAAGAGAGCC TCTNATNGAC CCCGCCTGCC 60
CGAATGAAAT CCGAACAGTT GGGGCTGTTC ATGGCAAGTG GGGCTGGTTT TTCATNTCCA 120
TTGGTTATTT AAAGTTCCN TAAAAATAAA CGATTTTAAG TAAAA 165

SEQ ID NO:6035

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07161

SEQUENCE DESCRIPTION:

GATCTGGGGT CTGTTTGTGTT CATTACTTTG TTCACTCCTT CTTCCATTTA TTCATTCAAT 60
AAACATTAT TGGGAAA 77

SEQ ID NO:6036

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07162

SEQUENCE DESCRIPTION:

GATCCGGCTT GCCCAGAAAG AGAAGACAGC CATGGAAGTG GAAGCCCCTT CAAAGCCAGC 60
CAGGACTAGT GAACCACAGC TCAAAAGGCA AAAGAAGACA AAAGCCCCC AGGATGTAGA 120
AATGAAGGAC CTTGAAGATG AGAGCTAAAC CTCTCCACT AGAAGATTCT CAACTGGAGC 180
CAGCCTTCNG GCTCAGTGGT TGTTCAGAG GACTTTGACA AAAGCAAGGC CCCTTTTCAC 240
TCTCCAGATT TCCTCCTACC TAATGGCCTA CTGACCTCCC CTTAGAGGGA TGTNTTTGGG 300
NGGGAAGNTN 310

SEQ ID NO:6037

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07163

SEQUENCE DESCRIPTION:

GATCCAGAAC ACTTCAAGAA CTCGTCAAAC AGCTCGATAA GCCTTTTTGA CTGTNTACAT 60
CTGTACCGGG AATAACATTC CTAGGCTGAA ATTTCCACAA AGANTAGAAC CTGTACCCAG 120
TTCTTCAGGC TGATTTCCCT GACCTCTTGG GCATTGTAT TTGTAGTAAA GTATTGCAGA 180
GATTCCCTAAG TATTTTNNNA GCAGCCATNA AAAATTGGNC TTTGNTTNG TTGATTCATN 240
NGGAGGGCAA GTTGGGGANT AGACTTCAGT NGANCTCGGT ATGGNTGN 288

SEQ ID NO:6038

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07164

SEQUENCE DESCRIPTION:

GATCAGCCCA CTGCACTCCA GCCTGGGCAC CAGAGTGAGA CACTGTTTAA A 51

SEQ ID NO:6039

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07165

SEQUENCE DESCRIPTION:

GATCTGGGCA GGAACATCA CATAACAGG CTGTCTGTCG GGGGGGTGGA GGGCTGGGG 60
 AGGGATAGCA TTAGGGGAAA TACCTAATGT AAATNACAAG TTGATGGGTG CAGCAAACCA 120
 ACATGGCACA TGTATACCTA TGTAACAAAT CTGCATGTTG TGCACGTGTA CCCTAGAACT 180
 TAAAGTATAA TTAAT 195

SEQ ID NO:6040

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07166

SEQUENCE DESCRIPTION:

GATCAGGCC CACCTTGTTG CTACCCCAT CCCNGCTGTG AACGTGACAN TGAATAAAGT 60
 CGGGGAAACG CGAAA 75

SEQ ID NO:6041

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07167

SEQUENCE DESCRIPTION:

GATCTGAATT GAGGAACCTG TAGTTTTTGC TCTCCCACTT CTTGGAAACC CCTATCTACT 60
 TTCCTATGTA TTGACTACT TGAGGTAGCT TATACAAGTA GAATCATACA AATGTATTGT 120
 TTTGTGACTA GCTTACTTCA NTTACAATAA GTCCTCAAGT TCTNCCATGT TGCTGTGTGT 180
 GTCAAAATTN CCTCCTNGC TAAGGCTGAA TAATATTNCA TNGTATATAT ATGNCNTTNA 240
 TCCAGTCATT CATCAATGAN TACNTGTTTT TNGTGTGTGG TGTGGAANC CTNCTGGGGA 300
 CATGGTNATA TTTTN 315

SEQ ID NO:6042

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07169

SEQUENCE DESCRIPTION:

2153480

GATCTAAGCT GATTTAAATC TAAAACTGG ATAAGAAGCT GTGGCTTGTA ATTAAAAATA 60
GACCTTTATT CACTAGAAA 79

SEQ ID NO:6043

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07170

SEQUENCE DESCRIPTION:

GATCAGGTAT TTAAAGGACA TCTGACAGTG CCTGGCACGG GATAGGTGCT CCATAAATGC 60
CTGTAGCTAT AATTATTACT GTNCCACTAG CTGTTTACTT AAGTAACATT GAATTTCAC 120
AGANTGCATT TCGAATCAGG TGGACTATGA TTATACTGAT TNTNAAAATA GNGAGCTGCA 180
TCTGTAAAA 189

SEQ ID NO:6044

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07171

SEQUENCE DESCRIPTION:

GATCTGGAGT GGAAGGGGAA TTCATTTGTT CATTGCTCTAT CCTTTTGTAT TGATTGAATT 60
TTTNATATAT ATATGTAAAT TTNCACAATA AAATTTTTTN CCAAAATAAA ATAAACAAAA 120
GGGGCTTTTT GCAACCCAAT TCCTATCTAA A 151

SEQ ID NO:6045

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07173

SEQUENCE DESCRIPTION:

GATCATAGCA CNTATCATC TAAAAAGTTA ATAATAGATT ACTTGTAACA CAGGCTCACT 60
ATGNGAGAAT TCATCAAGCT GTATGTACAT TTATTGTGCT CTTCATTGTA TGTATAANTC 120
AATAAATTGA AACAGTAAAC GAAAAGGTAA TTNTAGANAN CCTACAGTGA TNCTTGNN 178

SEQ ID NO:6046

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07174

SEQUENCE DESCRIPTION:

GATCCGTCAC AGACTAAGGA GATGGCAGGC ATTGACAGCT TCACTCCATG AAGGCCATCT 60
CTGTTTCTNT CCTCCGCTTA ACCAAGCTGT TGTGGTTTTT NAGCATAGTG TTGTATGTTC 120
CATTGCTAGC TGTCCTGCTG TTAAACACAG TGTTGTATTT TTTTNCTAAA TGTACATAAT 180
TAGAAAAGAA GATAACAATA GGANGCTATG TGTATCTCCT GTGTAAAGNA GTGGCTTCAC 240
TGGAAAAATG GTGTGGCTAG CATTTCCCTT TGAGTCATGA TGACAGATGG TGTGAAAACC 300

01776

ATCTAAGTTT GCTTTTGACC ATCACCTCCC AGTAGCAATT NTGCTTTCAT AATCCNTTTT 360
AGCANTCCAG GCCTCTTTGN 380

SEQ ID NO:6047

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07175

SEQUENCE DESCRIPTION:

GATCGTAATG TAAATTCTT TTACCATGTC AAGAAATTAT TAAAAATACA GGTACTTTGA 60
CCTCTTTCTA AA 72

SEQ ID NO:6048

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07178

SEQUENCE DESCRIPTION:

GATCCTGAAA AGATAGGGCT ATTGTCCCCT GCCTCCTTGG TCACTGCCTC TNGCTGCACG 60
GNCTCCTNAG CCCACCCCT TGGGGCACAA CCTGCCACTG CCACAGTAGC TCAACCAAGC 120
AGTTGTGCTG AGAATGGCAC CTGGNGAGAG CCTTCTGTGT GCCAGNTTTT GTTCTGAGTG 180
CTGTACATGT ATTANNTCCT NTA CTGCTNG CCACATTGTA CCNNTN 226

SEQ ID NO:6049

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07179

SEQUENCE DESCRIPTION:

GATCCCCGTA CCACAGTGCC AGCCATGCC TTCCCCTGGG CTACCATTGT CCCTTTCCTC 60
ACCCAGTTGG TAGAGGAGTC AGGAGGTGGG AGGCCGTGGG CTTTGGTTTT ATAATGTAAC 120
CACTGTGGGG GTGGGGGAGG ATGGTGAACC ATGTATTNA GTGAAATATT TAATATATTT 180
AANTATCANT AAANTCAAAC TCTTTGTAAA ANANANNAG NANGN 225

SEQ ID NO:6050

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07180

SEQUENCE DESCRIPTION:

GATCATCCTG GGCAGCAAAG TCATACACTC TTGAGGGAAG AGAGAGACCT TCTCATATTG 60
TTTTATATTG TTTTATACTC AGTACCTGTT TTAAGAAAAA AACAAGGAAG TGAAATCAAA 120
GACAGGCAGC CCGGCACCAG GCCTGANACC AGCCCTGGGC CTGCNTGGCC TAAACCTAGT 180
AGTTAAAAAT CAACTACGA CTTAGANCCT GATGTTATCC GTAGATTCCA AGCNTTGTAT 240
AAAAANATTG TGANACTCCC TGTGTGTTC TGTGCCAGTG CATGNNACCC CTGTCACATA 300

TCCCCTAGAT TGCTCANTCA NTCNCGGTTT GN

332

SEQ ID NO:6051

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07181

SEQUENCE DESCRIPTION:

GATCACAGGC CTTTGGAGCA CTTTACTCT CTGAGAAGAA CTGGAGCTAG AGATGTAAAA 60
TGGACAGTCT TGATGGGGTT GAGAACCTTC TGGGGAGCCA GATGACCCTC TCTTGCACA 120
ATAGATAAAA GTCTTATAT GANTATATAT AANTTTNTT NTTTTCCCT TCCTGTGGGA 180
TTTCTGGAGA ATGAGAATTA TCCAAATNCT CAGTCTACCT GNGATAGTAA ATNCATGGCT 240
TATGCTTCTG GTCCTTAAA 259

SEQ ID NO:6052

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07182

SEQUENCE DESCRIPTION:

GATCGNACCA CTGCACTCCA GCCTGGAAGA CCAAACGAGA CTCTGTATCA AAAAATAATA 60
ATAATTAATA AAGTTTACT GGAAAAAGA AA 92

SEQ ID NO:6053

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07183

SEQUENCE DESCRIPTION:

GATCAGCTAC AATGCCCTGT GTTAAATTNT TAAAAGTTT CCCTTTTCTT TTTTGCCAAT 60
AAAGTTGTAA ATAAAGACCA TCATACATTA AA 92

SEQ ID NO:6054

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07185

SEQUENCE DESCRIPTION:

GATCCCTTCC CGCCACACGA TGCTCCGTTT TCTCCGTTG TGAATNCCGC GTCCTGTCCT 60
GGTGACAGGA GAACAATNTT GGTGAACGTC GCAAA 95

SEQ ID NO:6055

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07186

SEQUENCE DESCRIPTION:

GATCTCCTTC TCACTGCATT CACTCGGTTC CCATAGCCCA AGTCATATTG TNTCTCTCCT 60
 GGACAGTAAT AACCTTTTNT TGGGCTCCCT GCTTCCAACC TTGCCTTCTG TAGTGTACTT 120
 TCCAAATAGA AGCCAGAGTG ATACCTTATA TTAAA 155

SEQ ID NO:6056

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07187

SEQUENCE DESCRIPTION:

GATCAGGAGG CCCACTTGGA TTTATAGTAT AGCCCTTCCT CCACTCCAC CAGACTTGCT 60
 CATTTCGGA GTTTTAACT AGACTACACT CTATTGAGTT TAATTTTNTC CTCTAGGATT 120
 TATTTCTGTT GTCCTAAA 138

SEQ ID NO:6057

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07188

SEQUENCE DESCRIPTION:

GATCTGAAAA CCAAGTGGTG ACCTAGGGAG GGAACAAGCN CTGTGCAGCA TTGATGAAAC 60
 TTAAAGATG AAGTCTGGT CCGGGCACGG TGGCTCACTT CTNTAATTCC AACACTTTGG 120
 GAGGCCGAGG CAGGAAGATG GCTTCANCCC ACGACAAA 158

SEQ ID NO:6058

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07192

SEQUENCE DESCRIPTION:

GATCTNTGGC CCACTCCGCA TAAATCAGGT GCATAATGTA GCTGCCCGGG CTTCTATACT 60
 GCAACATTGC CAAGGCAATT AGCTTGAAAA CTGAATTGAT GTACATTGAT TTTTAAATA 120
 AAGTTATTGT AATATATTCA CTCGTTATAA A 151

SEQ ID NO:6059

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07193

SEQUENCE DESCRIPTION:

GATCTATACC CTAAGCAGAT AGCAAAGAAG ATAATGGAGG AGCAATTGGT CATGGCCTTG 60
 GTTCCCTCA AAACAACGCT GCAGATTNT CTGCACAAAC ATCTCCACTT TTGGGGGAAA 120
 GGTGGGTNGA TTCCAGTTCC CTGGACTACC TTCAGGAGGC ACGAGAGCTG GGAGAAGAGG 180

CAAAGCTACA GGTTTACTTG GGAGCCAGCT GAGAAGAGAG CAGACTCACA GGTGCTGGTN 240
 CTTGGTTTTN GCCAGGCTCC TCCGAGCACC TCATGCATGT CCCAGCCCCT GGGCCCTAGC 300
 CCTTCCNGN CCTNCGTCT NCAGTGCCAG NACGGAANTN CCTTGNACCA NNGGNTNTTN 360
 GN 362

SEQ ID NO:6060

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07194

SEQUENCE DESCRIPTION:

GATCCATCAT NATGTAAAN TTCACAATAT GGTTCAAATG TAACANTGCA GAATTGAATA 60
 TGGAGGCATG CATAACCTTC CTCTTAGAAA ATGGCAGGTN TTGTAATTC AAATTTTNT 120
 GCAATTAGAT TAANTCATAA TGCAACAAA 149

SEQ ID NO:6061

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07195

SEQUENCE DESCRIPTION:

GATCTTGCTT TAACTTCAA CACTTAGAAA ATCTACAAAC ATTCAGACCT GTCTGGGTTG 60
 GTATTGCCAC CCATGACATT TAACATGTTG TGATGCTTGA AAACACAGGA GTAGAGAAAN 120
 TCGATGANGA TTGTATTTN NCACCTTAAC TCCACATTGC TTTATTGGNT AATTNATANN 180
 CTNN 184

SEQ ID NO:6062

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07196

SEQUENCE DESCRIPTION:

GATCAGTAGT CTCTATTCAA ACTTTNAAAA TGTCGTGGTA TTGTAACAAT ATATTTAATG 60
 AAAGANGGTT ACAGACTCCC CTGAAGAACC AGCTTTCCTA CGCTTTTAT TTNCTAACT 120
 TGTCTAACCT GATTNAAAA TGAATGCANT TCCAGACTAA AACATGCTT CANCCCTGTT 180
 TCANGACATT NTGCTN 196

SEQ ID NO:6063

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07199

SEQUENCE DESCRIPTION:

GATCCAACT CTACATCCAG AGATTATGAA AAATTCTTAT AGAATTTTGT AACAAGTATT 60
 TACATGTTGG GTGAAAGANA TTTCATAGTC GTTGGAGTGC CATGAAATTA ATACTTGCAA 120

TTCAGATTGC GGTAGTTTAC ACTTTTCCTG TATGTTTCAA ATCAGGTGTG TACCATTGT 180
 NCTGAGANCA CCACAGANTG ATTTATCCAA AGTCCATTGA TTTTNATACG TGTTTTGGTT 240
 TGTNACCAAN TTATNGTNAT TCNTNGCACA TTTTGGNAA TTNATTGTAT AGGNN 295

SEQ ID NO:6064

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07200

SEQUENCE DESCRIPTION:

GATCTTCGCT GATTNNNTCC ATCAATNACC CGGAGCATCC ACTNACGCTA GAGGAGTTGA 60
 ACGTAGTAGA GCAGGTGCGG GTTCAGGTTA GCGACCCCGA GAGTACAGTG GCTGTGGCTT 120
 TCACACCAAC CATTCCGCAC TGCAGCATGG CCACCCTTAT TGGTCTGTCC ATCAAGGTCA 180
 AGCTTCTGCG CTCCTTCCT CAGCGTTNNN NNGATGGACG TGCACATTAC TCCGGGGACC 240
 CATGCCTCAG AGCATGCAGT GAACAAGCAN CTTTGCAGNT AAGNGCGGG TGGCAGCTGC 300
 CCTNGNGAGC AN 312

SEQ ID NO:6065

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07201

SEQUENCE DESCRIPTION:

GATCAGTGCT CTTCAAGGTG TCAAGATTAT CAAAGACATA AAAGANTGGN TGANCTGCCA 60
 TAGATTGGNG GAGACAATGC AATGTGAAAT CCTGANTTTG ACCCTGAN 108

SEQ ID NO:6066

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07202

SEQUENCE DESCRIPTION:

GATCTTTAGT CCGAGTATGN GAAATTCAAG CAACTTTGCG AGANAAAGGA ATACTATTTT 60
 TNAGNCAACA AATTAAGGAA CTTGAAAAGC TAAAAANTCA GAN 103

SEQ ID NO:6067

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07204

SEQUENCE DESCRIPTION:

GATCANNGAA ACTAAACATT ACACCTTCTG GNCTTTNATT TATGAAGTGG CACAGAATCT 60
 AACTTTNCAC TGAATATCTT TCCATTACACA TCTCCTCTGC CTTAGTCACA ATGGCAACAG 120
 TACAGNN 127

SEQ ID NO:6068

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07206

SEQUENCE DESCRIPTION:

GATCTCCCAA GNAAGCACAA ATAGTTTTTT TCGCTAACTT AGTTATGAGT GAAGCCTCTG 60
TNCACCTATA ACTNGCCAGT TTCATTGGTG GAATAAGTCC CCTTACTCAT GATTCANCA 120
TATNCCTATA TTANAN 136

SEQ ID NO:6069

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07209

SEQUENCE DESCRIPTION:

GATCAGAGAA GGGTTTGTTT GTCCTTTTAA TCTTTACTTC TTTGAATTGT GAAAGTAATA 60
CTACATATTC ATAATAAATT CAAATAATAC AGAAGTATAT TATGTAAA 108

SEQ ID NO:6070

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07210

SEQUENCE DESCRIPTION:

GATCCGTGCT GTCCAATCCG GTAGCCACAC ACGGCTCTCG GGCACCGCAC AGTGGCTAGT 60
CTGAAACCTG ACATGCTCTA AGTGTAATAAT ACATGGTGGA TTTTNAAGAC TTGAACCAA 120

SEQ ID NO:6071

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07211

SEQUENCE DESCRIPTION:

GATCCTGGCC CTCCACCTNC CTCCAGGCCA CGAAATGGGA ATNCCAGCAC TAAGCCAGGC 60
ACCGGGCAGA AGCTGGGCCT TCCGCCTCCN TTGGATGGGG TCAAGAGGCC ANGCTGGNA 120
CATTTTGNG TGTCTGGCT ACCAGCTCTC ACCTACANCC ACGCACCTCT NTAN 174

SEQ ID NO:6072

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07212

SEQUENCE DESCRIPTION:

GATCTAGATA TNAGGTTTTT CTCCTTCATT CTCAGCTGTC GAAGAAATCA AAGTAGCATA 60

2153480

TGCACAAGGT TAAAAACCAC ATATACAAAT ACTATAGAAC AGCTTATANT GAAAACCTTG 120
CCTGCCTTTA TANAANNTGT GATTATCTTC TTCTGTAAAT GTCAGTAANN GATGGTTTGT 180
CCTAAA 186

SEQ ID NO:6073

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07213

SEQUENCE DESCRIPTION:

GATCTGAGAG ATGATACATG ATACCAGATG AAAAGAAGGA GAAGTGTGTA CCATATGTTT 60
TNAGCAGAGG NCCCTCCAAC TTATGGCATC AGGGGCAAAA AGTCACAGCT TATCCCAGGC 120
ACCTTGGCAG GTTCTCAGAG CCTGCCTCCT CCCTGTTTAT ATGCGTACAG CCTGGTAACC 180
CCCAGGCATG CAANTATACA GTCTGTAACA ACAGGNNNTT NNTNNNTTN 229

SEQ ID NO:6074

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07214

SEQUENCE DESCRIPTION:

GATCTTAAAA CTGAATAAAA ATATTTAATA AAACTTTGAA ATATTTTAAA 50

SEQ ID NO:6075

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07215

SEQUENCE DESCRIPTION:

GATCCATTCT ATCCATCCGT TATGTGGCTT TGCCATCCCA GCTTGGAGTG TCTTTACAAA 60
GATAATAACA GTTGTTTTCT TTGCTCTCGT TTTGGATGCA TAGACTGAAA AATTAAAACA 120
AATAACTTGT AAAATGGCTT GTNAAAAAAT ACAATTACCT CTAATTAGTA GTACGCGTAA 180
NTNTTTTACA GAATGANAGG CGTGCTTTNN ATTCCTTAC TGC GTTACAT TGGTGGCGAA 240
AGANGTCTGT ATGANANTCA GTNCTTNTGC TGACACAAGN TCCATTGTT NACANAN 297

SEQ ID NO:6076

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07216

SEQUENCE DESCRIPTION:

GATCCTCAAT CAGTGGGTGG AGGATAACAG GGTAGATTCA CTTGTTTGCA CTTNTACAGT 60
TG TAGCTGCG AGTCCAGAAG TCCTCTAGAG CATGTTTACT GGCAGT GAGT TGGT GAGACA 120
GTTGTGGAGT ATCCATTCT GATGAGTACA GAAAAAAAAA GAAAAAGAAA NGANGAGAAA 180
AANTTANGAA A 191

01783

2153480

SEQ ID NO:6077

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07217

SEQUENCE DESCRIPTION:

GATCCGAGCG TCGTGAAGCTC ACCTGAACTT TGGAAGGTTG GCACTGGGGG GCCGCATCCC 60
CCTGGGAAAT NACTGAACGC GGGGTTTCAN TGGGTCCCGC CTGGGTCTAA GGACCCAGTT 120
TCTTCTGTNA GCACGGGCAG TGGGAGGCCG GTGGAAAGGC GCAGGGGCC ACCTACGCGT 180
CTCACATCTT CAGGGGCGCA TTTCTACAAT AAAAATCAC CCAATTAGAC CTAAA 235

SEQ ID NO:6078

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07218

SEQUENCE DESCRIPTION:

GATCTATTGG ACCAAACCTT CTGCACACTC GGCCAGTTCC CTCTCCAATG TCCGGTGCCA 60
TCTTCTCTGA CCTTTGTTTC TTTCTGTTCA GGAACCATCA GTCCCCTTGT AATAAAGGTG 120
GTAGATTTC A TTGAGGTTTT AGATTGAAAC TTTGAATAAA TCAAAAATAC TCATTCTTAA 180
A 181

SEQ ID NO:6079

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07219

SEQUENCE DESCRIPTION:

GATCTATCAT TACAAAATNA ATTGAATAAT AAAATAGTTT GGTAGAAACT TAAA 54

SEQ ID NO:6080

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07220

SEQUENCE DESCRIPTION:

GATCCAGAGT TGAAGACCCT TCAGCTGGCT CTGCCTGCCA GTGCCACANA GTGCCATGGC 60
CCAGGAAGAC AGGTTTTNTT CCATCTAGGC CAGGCCATCC AGTGGCCATC CTCCGTGTCC 120
TCCC GCCTCC TCCTGGTGTG ACTTCTGAAA ACCAAGAATT TGTTCCTGTT GACTTTTTCT 180
GTGCTATGGA CCATTGTCCT CTCACCCACT CAATAAATCT TGAAA 225

SEQ ID NO:6081

LENGTH:291

TYPE:nucleic acid

01784

TOPOLOGY:linear

CLONE:HUMGS07221

SEQUENCE DESCRIPTION:

GATCTCTNCT AACNNTAGTA AATAAACACT AAAGTGGTGG GCTTTGATAA TGCATTNGT 60
 GGATACAAAA TCATCGNCTC ATCACTTTCT AGAATGAAAG GCTGGGAGGC ATTGCTCACC 120
 TTTTGCGTGA AGAAAAGACC TGTCCCTTAG AGCCAGTTTT TNCTTAAGGG GAGGACAGAC 180
 CGTCGTCACC CAGTGGACCN CGTTGGATGG NTGGATGCAG TNCATNCTTT AGAAGCACCG 240
 CATACCTGCT TGTACAGGT NCAGNGTAAG TGGTCTTNGC TNCTGTGGGA N 291

SEQ ID NO:6082

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07222

SEQUENCE DESCRIPTION:

GATCTNCCCT AGCCCTCTNT TCCAGAAGAT GCCCTCCAAT CCTTTCCACC CNATTCCCTA 60
 ACTNTNGGGA CCTCGTTTGG AAGTTTTCTG TGGGCTTGGC CTTGGTN 107

SEQ ID NO:6083

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07223

SEQUENCE DESCRIPTION:

GATCTAGTTT TCCAAGTAAC ATTTTGTGGT GACAGAAGCC TAAAAAAG CTAAAATCAG 60
 GAAAGAAAAG GAAAAATACG ANTTGAAAAT TAAGGAAATG TTAGTAAANT AGATGAGTGT 120
 TAANCTAGAT TGTNTTCATT NCTAGATAAN NTGTATAACG CTCTCTGTNC TAN 173

SEQ ID NO:6084

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07224

SEQUENCE DESCRIPTION:

GATCACCTGC GTGTCCCATC TACAGACCTG CGGCTTCATA AAACNCTNA TTTCTCTTCA 60
 GCTTTGAAAA GGGTTACCCT GGGCACTGGC CTAGAGCCTC ACCTCCTAAT AGACTTAGCC 120
 CCATGAGTTT GCCATGTTGA GCAGGACTAT TTCTGGCACT TGCAAGTCCC ATGATTCTT 180
 CGGTAATTCT GAGGGTGGGG GGAGGGACAT GAAATCATCT TAGCTTAGCT TTCTGTCTGT 240
 GAAATGTCTA TATAGTGTAT TGTGTGTTTT AACAAATGNT TTACTGTGAC TGTGCTGTA 300
 AAAGNGAATN TGGGAATAAA GTTATTTN 328

SEQ ID NO:6085

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07225

SEQUENCE DESCRIPTION:

GATCTCAGCT ATTTAAATAC AAACCTGAAA AAAATATTTT TCCAGGGTAC CATAAATATG 60
 ATTAANTNNN TAAAAAATTT AGTGTCACCTT GATGAAAATA TAACTAGACC AATAGTAAAA 120
 TNCAGGTGTA TCTTANTTCC CTGANGTCCT CATTTN 156

SEQ ID NO:6086

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07226

SEQUENCE DESCRIPTION:

GATCCTGGGC TGCTGGTGCT ACCTGCGGCT GCAGCGCATC ANCCAGTCGG AGGACGAGGA 60
 GAGCATCGTG GGGGATGGGG AGACCAAGGA ACCCTTCCTG CTGGTGCACT ATTCCGGCAA 120
 GGGACCGTGC GTGGAGAGAA AGGCCAAGCT GATGACTCCC AACGGCCCGN AAGTCCACGG 180
 CTGAGCCAGG ATTCAAGGNT CCTNGTCCTA TTTNCAGCCG GCCAANNNGG GCTNGNAGGG 240
 GNAAANCCAT ACGGTTGCGC TNNTGTCTGA GAGGAN 276

SEQ ID NO:6087

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07227

SEQUENCE DESCRIPTION:

GATCTTGCCA CATCTGGCAC GGAGACGACA CAGTAATNCT GAAAAAGCCT CTATGTAGTC 60
 CTGTTAGTNT CTTAAAGAAC CTAAGGCTN GGACCAGTAA AATCCACAGA AATCACTCT 120
 TGCCTTTAAG AACTTTTGAA AACTGTTTAA A 151

SEQ ID NO:6088

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07228

SEQUENCE DESCRIPTION:

GATCCAATGG ATTTAAACAG AAGCNCTTTG CCAGGCTTGC CAGCAAGAAG GCAGTGGAGG 60
 AACTTGCCTA CAAATGGAGT GTTGAGGATA TGTAACCTTC CTNAGGCTGT GGGGGTGGCT 120
 GGNCTGTGGT AGTGGGCATA GGCAGCGAGA TATCCAGTGG TAACAGTTGT CTGTGCTAAT 180
 AATTGGAGCC CACACAGNCC AGCAGCTTGT TGAATGCCAG TTTTGACCAC AGAAGGTTTA 240
 TTCGAGGCCT NATGTTTGGG CTGAGGTACC TGTACTTCTT NGGGTGTTGA CAGCACCAGG 300
 TGTGCTGGN TTTAGAGGG AGCGTTGATT TCTCNTTGAC CAGGGNTTNT TCTTTGGTTA 360
 GGGTGTCTCT TCN 373

SEQ ID NO:6089

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07229

SEQUENCE DESCRIPTION:

GATCAGNAGA GGCCANGCTC CNCCCCACCC CAAACAGCAT GAACTTCCCA AGGCTCCATC 60
 CCTTTCTCCC AGTGCACAGG CTGGTCACTT TCTCCGGGTA CCCCCTTGGG TACCTTGGCT 120
 GTCTCAGTTC TATTAAACCA TTTCCCACT TTTGAGCATT TACTCACAGT TAAA 174

SEQ ID NO:6090

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07230

SEQUENCE DESCRIPTION:

GATCTCAGAT TTTTTTTGAA GTTAACATGC CTGACACAGA CATCCTTTCC TCTACAAGC 60
 TGTGTGACTT AGTAGATAAA ATACTGCCTT CTGCCCTTGG GACCATGATT AAAACAAAG 120
 ACAAAAACCA AAAGTCATTA AA 142

SEQ ID NO:6091

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07231

SEQUENCE DESCRIPTION:

GATCACTGGA CATCAAAGAT TCATTGCACT TATGAACAAG GAACCTTCTT TTCAATTTCT 60
 GTGTAATTTG CAAGGCTGTA CAATGTGTGC TGATGCAAGC CTTTTTCAGT TCAAGAGAAT 120
 AAATGTTTAC AANTATAAA 139

SEQ ID NO:6092

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07232

SEQUENCE DESCRIPTION:

GATCTATAAA TCAAGAAAAT CCATTGTCAT AACCATTTTT AAAAGTCAAA AATTAAGACA 60
 TCCTTAATTA AAANGTTTCA AATCTAGACA CTAAATGTGT GTGANTGTAC AAAGAAAACA 120
 ANCCATTGCT TATNCTGTTA TATACTAGTG NNCCTTTTAN TTTTGCTTGC TGTTTTAAAC 180
 TTGGACAGTT TGAGGACTTT NGTTGGANCT TCGTATTGTA NGANCTGTTN 230

SEQ ID NO:6093

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07235

SEQUENCE DESCRIPTION:

GATCGAGGAC TATTCNGTG CTATTCATTC CTCCATTGCT AAACAGATNA AAAGCGACGG 60

TTNCTNCACT AACAGCAGCT GGGAAAGANG TTATGCTTGT TGN

103

SEQ ID NO:6094

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07238

SEQUENCE DESCRIPTION:

GATCCCAAGG ACCTGGAGCC ACGGGCTGCC AACTGCACTC GGGTACTGGT GTGGCATACT 60
 CGGACAGAGA AGCCCAAGAT GAAGCAGGAG GAGCAGCTGC AGCGGCAGGG CCGGGGCTCA 120
 GACCCAGCAA TTGAGGTGTG ATGGCGGCCC CACCCCACT ACCACCTCTT TTCAGGCACA 180
 GACCTTGTGG GACTGGGNCC AGGCCTNCCC AGGATTGTGG GTTTTCCAA AGTCCTTGAC 240
 CNTTTN 246

SEQ ID NO:6095

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07241

SEQUENCE DESCRIPTION:

GATCCACCAG CCTCAGCCTC CCAGAGTGCT GGGATTACAG GCGTGAATGT AATNNTTTT 60
 AAAAAGAAAA ACATGGNTGT AAAGAAAGTA AAGCTTCGTT TTGAACAGTT ATGATGGTAA 120
 CACANCTCAA NGGTGCAACT AANGCAGTGC TGCANCCN 158

SEQ ID NO:6096

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07243

SEQUENCE DESCRIPTION:

GATCTGTGAC ACTNACATGG CTGTGGTGTG CATACTGTGT AGTTACATAG CCCTTCCAAT 60
 TCTGGGTCCA TTGCACTAG CAAATTAAAA TATGCTTTGA TTCATACTTA AA 112

SEQ ID NO:6097

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07244

SEQUENCE DESCRIPTION:

GATCCCAAAC NACTCACTCC TTAAATTCAC ACTTTGCCAC TTAACCTCCAG TGTGGATGAC 60
 AGAGCGAGAC CCTGCCTCAA A 81

SEQ ID NO:6098

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07245

SEQUENCE DESCRIPTION:

GATCAACCTC AACACCTGGC NTCTCANGCC TATATACCGA CATATNCAGC AAACCCTNAT 60
GNAGGCTACA AAGTACGCGC AAGTACCCAC GTAAGTGACG TTAN 104

SEQ ID NO:6099

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07246

SEQUENCE DESCRIPTION:

GATCTTTTCT AAATATTATT ACTTGAAAT AAAGTCTATT TTGNTCCCGT GAAA 54

SEQ ID NO:6100

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07249

SEQUENCE DESCRIPTION:

GATCTAAATA TGAAAAGTAT GTCCTGCTGA ATTTTCCTGT GNATTGGTGA GCGGACAGAC 60
TACCTGTAAA CCATGACCTC CTTGCCAAAC GTTAGTTTTA TNAGNTCACT NGTAACCTTT 120
GAGAATNNTC TGN 133

SEQ ID NO:6101

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07250

SEQUENCE DESCRIPTION:

GATCGTNCCA CTNACCTCCA GCCTGGGGGN NAGAGCAAGA CCGTGTCTCA AAAACAATTN 60
AGTCTGAAAC ACAATTGTCC TGAATCTGTC TGAATAAAC TCTN 104

SEQ ID NO:6102

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07251

SEQUENCE DESCRIPTION:

GATCTCAAAA AAGAAGGAAT TTCTCCTNTN TNTCTTGCA TTAATGTAAG ANTACTTTAA 60
ATCTCTAANC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT GGTAGTAATG 120
TNTTAN 126

SEQ ID NO:6103

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07253

SEQUENCE DESCRIPTION:

GATCAAGCCA TCGGAGCTGC TAGAGTTCTG TCTGGACTTT CCAGAGACCA AGTNTTCCCT 60
TTTGCTGCCT CTAAAAGGCC TGTGCCTGCA GACATGTGAG ACAGCAGGTC TGATGGGGGT 120
GACAAGCTTT NTTTTTTTN CCNAAAGAN TTNCAAATTC AATTCCAGAT TGNTTTTN 179

SEQ ID NO:6104

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07257

SEQUENCE DESCRIPTION:

GATCAAATTT CANTGGCTTT NGACAGAAAA GAAGGCTCTG GATTTAAGCG GGTGGTCACC 60
TGTNAGACCA GGTCTACCTT GGGACTGTNA TTAACTGAA TCAGTTATTT CCTTGAAATT 120
TCACAGTAGT GGGTGGGCCT GTTTAAGGN TCTGACAGAT ACCACGAAAC ATGAAGCAGC 180
TGGAAGTACA AGACCCCGG GGTCTTCTG AGTGCAAGGC TGAAATGGGN CAAGGGCTCC 240
TCACGGGGNG TGGAGGGNNG CCGGGAGNCT TNCNTGGTTG TTNCTTTTT TGN 293

SEQ ID NO:6105

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07259

SEQUENCE DESCRIPTION:

GATCCCGTNC GGCGCGCTGC CCGAGAGGAA CAATGACAGC TTTGCAGTTC TCCNGGAGTN 60
CGCTGAGGAG CAGCTGCAAG CCGACCANGT NTTCAATTAC TTCCACAAGN 110

SEQ ID NO:6106

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07261

SEQUENCE DESCRIPTION:

GATCTAGTAC TCCTTGATGA AGAATCGGGG CCTGTAACT TACCTCCAGC ACTAAACAT 60
CCTCANGANT TACTATAATG TGTCCAAAAT ATCACTGCAT ACAATATCTG NNATTTGAAG 120
TGAAAAACTG ACTTNGTAT AGTATAAAC ACAGGCTTTC ACAANTTTTG GTNTNGCTGG 180
NTN 183

SEQ ID NO:6107

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07263

2153480

SEQUENCE DESCRIPTION:

GATCCTGANG ATGATGATGA TGATGATGAT GAAGAATAAA TGGAATCAAA ATGCTAGCTT 60
NATTTGACAT NAATAAGTAA AATAAGTCAT CATGTNTTCA ACNCTGTAGT TCAGCTGTTT 120
ACATTGAATA ATNTN 135

SEQ ID NO:6108

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07264

SEQUENCE DESCRIPTION:

GATCCTTTCC AGTTTAAAGCA GCCAATCAGA CCNCTTCACA TTTCTAAAAA AATGACCTAA 60
CTAAAGCACC AGAGCTCGGA GANTTCCAGG GAAGCCAGAT ACCGAGGCGC AAATTTTTTA 120
AAAAATAAGA GTCAGAAATA AAAATAAANG GTNTCTGTTG GTCAAGATTT AAA 173

SEQ ID NO:6109

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07265

SEQUENCE DESCRIPTION:

GATCAATTGA AATCAACTGT GTTTTGTNTT CTCTATGTCA AAGTTTAGTT TTATATTGAG 60
AATGTAACT TATTGCTTTG TATCTNGGGA AAAAACTTT GTAAATAAGN TATAAAGTTT 120
CTTTGAGACA GTAAAATTAT GATTNCTTGA AA 152

SEQ ID NO:6110

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07266

SEQUENCE DESCRIPTION:

GATCTGCTCA CCTCGGCCTC CCAAAGCCTC AGCCTCTTAC AGTGTTGGGA TTACAGGCGT 60
GAGACACTGT GACCCGGGAC GATTTTCAAT CACAGTTTTT TGNTACGAGT GGAAAATGCG 120
TATTTATAAG AATGAAGTAG TACAGACATG ANTNTGTAGA AATCTCTATA ATCCTGCCAT 180
CCAAGGTTGG TACCTGTAA TGTGTATATC AGGGATGTGC AATCTTTTGG CCTNCCTGTG 240
CCACACTTNG AAGAAGAAGA ATCGNCTTGG GCCACGGATA NANTNNCACT AACACTAGCA 300
ATACCTGGTG NGCTGAAANA GNNAGTTAAT TCNCNTN 337

SEQ ID NO:6111

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07267

SEQUENCE DESCRIPTION:

GATCCTGTTA ATNAAACCAC AGACACCATA TATCCTTCTG CATCCTTTGG CCAATAAAAG 60

01791

TTGCTGGAGA ACCAAA

76

SEQ ID NO:6112

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07268

SEQUENCE DESCRIPTION:

GATCAAGGAG AGTCACAGCC TTATTAAAAG TTTATTAAAC AATANTATAA AANTTTTAAA 60
 CCTACTTGAT NTTCCATAAC AAAGCTGATT TAAGCAAAC GCATTTTTC NCAGGAGAAA 120
 TAATCATATT CGTAATTTC AANGTTGTAT AAAANTATTT NCTATTGTNG TTCAAN 176

SEQ ID NO:6113

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07269

SEQUENCE DESCRIPTION:

GATCGACACG TGGGGGCGCC TGAGCGAAGA TAACCGTAAT AAATAGTAAC CTAACGGTCC 60
 AAA 63

SEQ ID NO:6114

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07270

SEQUENCE DESCRIPTION:

GATCAGNCCT CGCGCAGTGG CTCAAGGCTG TAATCTCAGC ATTTTGGGAG NCCGAGTGAG 60
 ACCTTGTCTT AAA 73

SEQ ID NO:6115

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07272

SEQUENCE DESCRIPTION:

GATCTTAAAT ATTCTAAAGT TTGTATTGTG ACTTCCAGTA ATGTAACTA TATGAGGCTA 60
 ATCCTCTTTT CCTCCTTTTT GTTTGTTAAC CTCATTTGGG ATAAGTGTA CTAGTATTAT 120
 TTTATTTATG TAATAAAAAT ATATGTGAAA TAAAGTGTTA CTGGTAAAGG ACTTGTAAC 180
 ATGATAANTA TTAGCAAGTT GCATACAGAN TTAANAGNGN GGNGNGNANG NGGTGNGGTN 240
 TGN 243

SEQ ID NO:6116

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07274

SEQUENCE DESCRIPTION:

GATCAGAAGT TCAAGGGACC GTGAAAGCCC TCAGAGTCAG CACCTAGTTT CAGACCAAGC 60
 ACCCTTTCGA ATCCCTGGAT GGCTGAGGGG GCTGAGGCCG GCTCTGACTG GGCAGCTCAG 120
 CNCCTCCCCC AGAGCCCAGG GTCTTGACA CCCCTNCCTG TAACCAAGGA ACACTCTGAA 180
 ATAAAGGTGA ATGGCTAAA 199

SEQ ID NO:6117

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07275

SEQUENCE DESCRIPTION:

GATCAAAATA CTAATAAATT ACTCACAGAC TCAGTGTATT TTNCTTGGA GTAAAAGTCC 60
 AGGATGGGTA ATAGAATACC TGCTGTTGGC TTTTGGAAAA ATTGGTACTG TATGTAGCAA 120
 AATAATGTGA AACCCATATG CATGGATATT CTTAACAATT TGAAGAAATC GTCACAGCTT 180
 TCCTGGGTTG TTGAGCCTCT AAGATGGTCT TTTCCTCTGA TGTGATAATA AAGTGTTTAT 240
 TCTGANCTCT AAAAAAANN NANNGNGGNG NNTGNNGTGG NGN 283

SEQ ID NO:6118

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07276

SEQUENCE DESCRIPTION:

GATCACAGTT TTACAAATCT TAGTTTTAAA TAAATTATTT CAGTGTGCTG TTAGTCCTCT 60
 ACAGTCATTT TGGTTTAAAA AGTGAATATT TATTTATGGT AGNATATCAA TAATTTATTA 120
 ATGTTAAAAA ATACTGTGTA TGACATTACA AACCAGANCA GTTCCTGGGG GAGAGGNTTC 180
 TNATTGATTG CGAGTTCTGA GAGGGCAAGA NGANTGGNAC TTTATNCTTC AAAAGGNGGT 240
 TTTGGTTTTN CCAGGTACTG CTTATGTNAA TCGTTTATTT TTNTTTCATC AAAGCCTGGC 300
 ANGTNTATGC NTTCCAN 317

SEQ ID NO:6119

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07277

SEQUENCE DESCRIPTION:

GATCGACGAG CTGCTGCAGG AGTTCGAGGA GAAGAGTGGC CGCACCTTTC TGCACACCGT 60
 CTGCTTCTAC TGAGCCCAGC GCCCGCATGG AGCCGCCTCT GGAGCTTCCT GTTGTTTATA 120
 CTTTTTCCTT CCTGACATTT GTTTTACTT ACAGGTGTTT TGCTGGTGAC GGTAGCATT 180
 CCCAAATAAA CTGTGCATAT GAAATGGGAG AGGAGATGCC AAAACGCCAG ATGAAAGCAA 240
 TCAAGTTTCT TCTTTTCCAC TTTTACTTAT GAGCGGGATA TTGATTACAN GGNNTTCTT 300
 CTTTAACCAA AAAGGAAAGA CANGCGTTTG TGTGCACTTC CCGNCATACC TGTGTCTTTN 360

SEQ ID NO:6120

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07278

SEQUENCE DESCRIPTION:

GATCGGGAAG ACTGAGTAGG GAAGGCAGGG CTGCCNAGAA GTCTCANAGG CACCTCACGC 60
CAGCCATCGC GGAGAGCTCA GAGGGCCGTC CCCACCCTGC CTCCTCCCTG CTGCTTTGCA 120
TTCAC TTCCT TGGCCAGAGT CAGGGGACAG GGAGAGAGCT CCACACTGTA ACCACTGGGT 180
CTGGGNTCCA TCCTGCGCCC AAAGACATCC ACCCAGACCT CATTATTTCT TGCTCTATCA 240
TTCTGTTTCA NTAAAGACAT TTGGAATAAA CGNGCATATC ATAGCCTGGA AA 292

SEQ ID NO:6121

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07279

SEQUENCE DESCRIPTION:

GATCCAATAA ATNTCCTTTT TTGCTTAAA 30

SEQ ID NO:6122

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07280

SEQUENCE DESCRIPTION:

GATCGGGAGA GGGAGGAGAG GCAGTCTCTT GACAAAATAA AGTATTTTAA TTCATTTGTG 60
TTTATTAAAT GAAAAANCAA TCCCATGGTG TCCCTGTTGT GTGGTGGACC TAATGNCTGT 120
TGAAATAAAG TTCTGTGTTT TCCCTGAAA 149

SEQ ID NO:6123

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07281

SEQUENCE DESCRIPTION:

GATCCACCAA TGGAATTAGA TGGGTAGAGT TGGGTTCTTG AGTTTTACCA CCACTTTGTT 60
CCCACTGAAT TTTGTAACCT GCTGTGTTTG CATCCTCTGT TCCTATTCTG CCCTTGCTCT 120
GTGTCATCTC AGTCATTTGA CTTAGAAAGT GCCCTTCAAA AGGGGCCTGT TCACTGCTGC 180
ACTTTTCAAT GAATTAAAT TTATTTCTGT NCTAAA 216

SEQ ID NO:6124

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07282

SEQUENCE DESCRIPTION:

GATCTCATCA ACCCTTTGAA ATGTTCTGGG CAGCACAGCT CTTGGTCTG CATGGTTGGT 60
 GTAAGTATAA TCANGTAGTG AAATTGTATG GTATATACCT ATATGCCANC AGTGACACC 120
 CGTATGTGCA GAATTTGCTA NTATAACCAT TTCAATAAAA ACCTATTGAA AAAGCTGAAA 180
 AAANNANAAA NGNAGGAGGN GNGGN 205

SEQ ID NO:6125

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07283

SEQUENCE DESCRIPTION:

GATCTTTGCC AGGGGTCAAA GCGTCGGGAA GCTTGGGGTC CTCATCCTG ACGTTATCAC 60
 CAAATTTNAG CTGACCATGC CCTGCTCCTC CCTAGAAATC AATATTGGAC CCTTTTGTG 120
 AAGATTGGTC TCTGTGGTGT GATTCTCTNC CCAGGTGTCC CTTTCTCCTC CCCTAGTGTC 180
 CTTAAGTCTT CCTCCACAGG GAACATCTAT TTGGGCTTGG ATGTTTAATA AAGTAGAAAG 240
 CACTGGNAAA AAAAGAAAANN NGNNNTGTGT NTGTTNNNN 279

SEQ ID NO:6126

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07284

SEQUENCE DESCRIPTION:

GATCCTAAGG AACATAAAGT TAATTAAAAA CTTACACCTA ATTATGTAAA TNGCCTTGTT 60
 AAAGACATGT GATTTGTATT TNAGATGCTT GTTTCCTATT AAAATACAGA CATTCTACC 120
 CTCAGTTTCT AAATGTAGAC TATTTGTTGG CTAGTACTTG ATAGATTCCT TGTAAGANAA 180
 ANTGCTGGGT AATGTNCCTG GTAACANGCC TGTNANTATN TNANGN 226

SEQ ID NO:6127

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07285

SEQUENCE DESCRIPTION:

GATCCCATTT AGCCCCTGAA CATAATACCA TCTGCAGTAT TATAAAAGTC ATTTAGAAGG 60
 TCAGGGGGAT AATCTAGAGG CAGGATTTTG GACATTGTGA AGGAAATGTG CTCCTTCTCA 120
 GCTCACTTCA ATAATATTT NCTGAGACTG AAGTTTTTTA GACAAGANTA AGANAACCTT 180
 GCTTTNTCA GTATCACAT GTGANAGCTT TTGCTTTTGG TTAGGAAANG GTGTGGNTGA 240
 CTCTACTGCG TGGNTGGTTA CATTTTGCTT TCCGTGNAAT TGCTCNGGAA ATGNTCNGGA 300
 CATNCCNTTT NCCATTTGTG TGTCAGTGCG TATGGTNAN 339

SEQ ID NO:6128

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07286

SEQUENCE DESCRIPTION:

GATCTCCTAG GACCTAGTGG ACATCTGGNA TTAATTTAAT CTCAGGAAAA ACAAGANATN 60
 AACCCAGAGA GAGTCTGGGT TCTGGAATTC AGCGTANTAC CTCCAGACCG TGGTGTCTGG 120
 CCTCCATTTT TGTCTGTNAT TCAGCTCTGA CTTACAGCTG CAGTCACCTT TNCTATAAGG 180
 CACCTGGGTA GAAGGGTGGG TGGGCTTCAC ATCAAATTTT TTNCTTCCTT TAGGGTGGGG 240
 NATTGGNTTG GCTNTNTTTT GTNGTGGNN 269

SEQ ID NO:6129

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07287

SEQUENCE DESCRIPTION:

GATCTGTCCT CCAATCCTC TATTAAACCT GATAGCTGA GCACAAA 47

SEQ ID NO:6130

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07288

SEQUENCE DESCRIPTION:

GATCAGCCCT TCTCAGCCTC CCAAAGTGCT GGGATTACAG NTGTGAGCCA CTGTGCCCCG 60
 TTCTGTGGCC TTTTCTAACA TTATCCAAGN NGCCCTAAGG TTCCTTATGA CAGGTTTGGG 120
 GATTGGGAAA GTTCAATTTT ATTGTACCGC CAATGAAAAG GTGCTATATT TTTTCTTGA 180
 ACCTNAAGGG CAGAGGCTGA ATTAATCATA TTCCTCAGCT CATTCCACAT TATCATGGCA 240
 AAGCTCTCTT TTGCITTATT TATTTATTCT CTNNTATCTT CATACTTAAT CTCATTCCAT 300
 TCTCTGNCAT GGGCAACCAT NNNAATNGNN 330

SEQ ID NO:6131

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07289

SEQUENCE DESCRIPTION:

GATCTTACAT GAGCATAATC ATCCTTATAC TTCATGAGGG GATTATNAGT ACAATCCCCA 60
 TTTTACTGTG TTTGAGTTAA AAACCAAACA TCCCTGTAAT TTAATTTGAA GATTCTTTAA 120
 CAGATTGCAG CAAAGTTCAT TATAAACTG TTATGGTGTC TTCAAAGNCT TGATAAAANT 180
 AACACTGNGA GAGANTTGGT CCATTGTAT GCTGTATTTC TATTACTTGC CAAANGGAAT 240
 GGGGNTAGGA TTAACCTTGT TTCCATTCTC TTCNCATGGG TATCCATCCC CATGTTTANC 300
 TGNCCACNCT GGGGGGCTCN GTTGTGTGCT GTN 333

SEQ ID NO:6132
 LENGTH:21
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07290
 SEQUENCE DESCRIPTION:
 GATCATAAAT AAATGTTTAA A

21

SEQ ID NO:6133
 LENGTH:331
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07291
 SEQUENCE DESCRIPTION:
 GATCATTTTC AAAAATTGCA TTGGGGCCTT CGTTATTTAC CATAGTATTT NCACTTTCAT 60
 AGTTTGTGCA CCTTTTGTGTA CTGTGAACAG TTCAACCAGT GACCGACTTC TCTCTCATGC 120
 TGTTACCCC ACACACAATT TCCCACTCAA TTCTGAAAAT AAGAACCTGT TAATAGGTTG 180
 GAAAGCTGTG TACTCTATTC ATATATTGTC CTTTCATGCT AGTGGAGAGT GGTGTCATTA 240
 GCATCTNAAT TTTAGAGTTG TGNAATGATT TTNCCAATTA GGAATTGANT GTGTATTTNT 300
 NTCCTGTTA ATAAGNNGNG CAAATNTGNT N 331

SEQ ID NO:6134
 LENGTH:40
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07292
 SEQUENCE DESCRIPTION:
 GATCTTAAAA CAAAATGAAA TAAACGTGAA AAGGAGCAAA

40

SEQ ID NO:6135
 LENGTH:53
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07293
 SEQUENCE DESCRIPTION:
 GATCGTGAAT AGTAAGTATC ACTTCATAA ATAGAAAGTG TCAGAAAAAT AAA

53

SEQ ID NO:6136
 LENGTH:336
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07294
 SEQUENCE DESCRIPTION:
 GATCTTGAAA GAGGTAAAAT AAACCTTCAC TGCTCCACTC CAGGTGAATC CGCCCACTCC 60
 CACTGACCTA GTAGAATTTG TAATTTAATA CTTACCTTCT ATTTCTGAAA TCAGTTGTGA 120

ACTGTTGCCT TATGTTGAGA GGTTAAGAA CCTCAGTGAA TTCATTTTTT AAAATCTGCT 180
 ATTCTGAGAA GCATTGAATG AATTCTTAAC AAGAAGNCTC ATCTGTAGCT GTTGCTGAC 240
 TCCTATGAGC CCATAAGGGT TCTGTGCTTA GCATTAACAA ANTAAGGTTT ATAGGGTAAA 300
 AGCCAATGTA TTANTTTTTT TTTGCATGGG GGGCNN 336

SEQ ID NO:6137

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07295

SEQUENCE DESCRIPTION:

GATCTAGGAC ACTCATATCC AGGGTGATTC TCTTCATAAG GAGGCATGGG CTGAGTCTCC 60
 ATTTATAGGG GCTGTCCCCA TAGAGACTTC AAGCCACACC TTTCTAGGGA TTCAGGTTGC 120
 ACATTACCTG ATTCTCACAG TTGATTTGAG CCTGCAAGAC TGTAACCCA TCCCATTATC 180
 ATGTTTCTT CCTCATTTAC CTACATTAT CATTAAACCT TTGTGATTCA GCAA 235

SEQ ID NO:6138

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07296

SEQUENCE DESCRIPTION:

GATCCAGGAT GACTGTACAT CTCAGATAAA GGAGGCTCAG CGCTGGAAGG ACAGCTGGAA 60
 GCAGTCCCTG CACACTATCC AGGGCCTGTA TGTGTGACCC TCCGCCCCAC CATGAATAAA 120
 CACTTTCTTA TACAGACTCA AA 142

SEQ ID NO:6139

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07297

SEQUENCE DESCRIPTION:

GATCCGCCAA GCAGGGCAGT ATCTGGGTTA CAGCCACAGC AGGAAGAACC ACTGGAGAGA 60
 CACTCAGAAG GACTTCCCTG ACATCTGCAC CAAGGAGAGT CTGGACAAAG CTAAGTAAAC 120
 TCCTCCACCT GCTTCTAAAA TGCCAGAAG CCAACTGGAC CNGTTTGTA TTTNGAAGTA 180
 GGNGNTGGN GGCTTTAACC NCCAAAGGGT TCCTGAAGCC CNGGAACTTG GANTNTGGAG 240
 GGGGTTNNGG CCTTANTGA GGGTTGGTGG GTTTCNN 277

SEQ ID NO:6140

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07298

SEQUENCE DESCRIPTION:

GATCAGAAAA CATTGATTTA TATTTAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60

TNNCAAGGCA AGANCAAGCC TGCAATAAAT AATGAGACTT TGACATTCCT TGGCGAAGAA 120
 GATGTCTCCT GCCCTAATAT GACTGTCACCT CAGCAATTC ANTTTTNTGT TTAATTGATT 180
 TANAANGGGA GGATAANTTG TCCTGANAAG TTTTTTTGTT TCCTTAACAT TTCANNGTTT 240
 TCNCTGN 247

SEQ ID NO:6141

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07299

SEQUENCE DESCRIPTION:

GATCCCTGAT GGGATGCCTG AAACCCAAAA TACTCTTAAG TCTTGATTC TAGGGCCTTC 60
 TAAGGCAAAA NATTGAGAGA CCCAAAAAGA GAAAATATGT TTAGTAAAGA AAATATTNC 120
 TTTGACTAGT TATGATGGTC ATATAGGGGA GANAAGGCAA ATTTTGGNAA TGTAAGATGG 180
 GGACANTTAA TGTNTATNCN CTGTCCAANT TCAANAGGTA CAACNGAN 228

SEQ ID NO:6142

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07300

SEQUENCE DESCRIPTION:

GATCCACCTG TCTCTGAAA ATATAAAAAG ACAAACAGG TTTGCCTTGG CATCAGAGAG 60
 CACAAAGATT AAAAGTTACT TTAAATTGTC CAATATTTTG GGAGANCAAT AAANCTACAT 120
 TTTTCCCTCT TCCATACTGG TAGATGCGAA ATTNATCTGT GCATGANAGG GTCACCTCTG 180
 TNATCGTGCA ACAGNTTTGG TATTANNCT TNNCTGTGGT TTNCCAN 228

SEQ ID NO:6143

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07301

SEQUENCE DESCRIPTION:

GATCCTCTGA TATACAATTA GAGATATTTT AATATAGNCC CCAAGCATTC TGTGCATAAA 60
 AGTTAACATT AGGCTGTGGT GCAGTAACCA TTAAATGTCG AGGCTCTATT TCGGAAATAC 120
 ACTACAAATG TTAAAGTACG TGGCTGTCCT CTTAAGNCAC TAGTAGAGCA AAGCCTTAAT 180
 CATATCANCT TAATTCTGTT ACACAATATG TGTTTTNAA TATACTANCC ATTTCTNATG 240
 GAANGGTCCT GTGGGGNGCC CNTCTCTCG CCANGCCATC ACAGGCTCTG CATAACGN 299

SEQ ID NO:6144

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07302

SEQUENCE DESCRIPTION:

GATCGGGTGC TAGGACAAC TGCAGTCCAAT CCACCAGCTC TCCNTGCCCC TGTGTCTTAT 60
 TTCAGACATG AGAATAACTG TACAGTGTA AACTATAAAG CGTTTTTAAT GGTGTAGAT 120
 TGGAAATAAA GTATGTCATA TGAACAGCTA AA 152

SEQ ID NO:6145

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07303

SEQUENCE DESCRIPTION:

GATCCACCT GCTCAGGCCG TACACCTTAT GGGGAGCCAT TAAGGGGNC CATCTAGGCA 60
 TTCTGGNTAC AGCCAGTGC TCATCCAGC GTATGCTCCN CTCTNTAGNG CAGCCTAAAG 120
 NGTCAGCCAC N 131

SEQ ID NO:6146

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07304

SEQUENCE DESCRIPTION:

GATCTTCAGA GAAATAAAAC TTGAGTGCAG TAGTTTATTT GCGGTTTGGC TCCAGGATGC 60
 AGGNGTGGGA AAGATGGTAG AGAGCCAGAA GAAAANTCAA TAGAACGGTA TTACGGCGNN 120
 TGGNTATATA ATNCTTCCCN GAATTGTCTG ACTN 154

SEQ ID NO:6147

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07305

SEQUENCE DESCRIPTION:

GATCCAGTGC TATTCTGTCA CCAACCTAAG AATCCCAATT GCACCTTCTG TTTCTGACAG 60
 TCACAGGTGA CAGCTGNGN TCTATAATAC AGACTGGTGT CTTAGAGGTA GGAATAATAC 120
 ATGATTATNA AGCATCACCC TGCTAATACA TAATAATGTC TTTTATATT ATAAGNGATT 180
 GAGTTTAGTT CATTNCAATA CATTTGTACN TGTA AAAANT GCAANGTNGA CCTNNGTAAT 240
 CNTTAAATCG N 251

SEQ ID NO:6148

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07306

SEQUENCE DESCRIPTION:

GATCTCGGAG ACTCNGTCCA TTCTAAGATA CCATGTTTCC ATGACCCTAC ACACAATAGC 60
 TACACAGGTG GAGCAACATG AGTCTGAGNA GCTTTGCACA AAAGANGCTT GTTTCCACA 120
 AATGNANCTG GGGTGGTTAA CTTCTAATTG TACCCTGTCT TAGCGTTCAG ATGCATTGGT 180

DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET
COMPREND PLUS D'UN TOME.

CECI EST LE TOME ____ DE ____

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COMPREND PLUS D'UN TOME.

CECI EST LE TOME _____ DE _____

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THIS IS VOLUME 7 OF 8

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TCCTTCCCCA ATGTGACCAT CTNNNNATTC NAN

213

SEQ ID NO:6149

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07307

SEQUENCE DESCRIPTION:

GATCAAGATG AATNTAATGT ATAATCAGAA TCCTAGGTAA GTAAACAAAA AAAGGGTTTT 60
 TTNAGAATC AAACCTTTGG GGATTGGGTG GTAAAGGGAA ATATTNTNT NCN 113

SEQ ID NO:6150

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07308

SEQUENCE DESCRIPTION:

GATCTGTGCA TCTGGCCAGC ACTGTGGTGA CATCCTTAGG AATCCATGGG GAGAGAGAAA 60
 GCATTCAGGA GTTAGTGGGT CACGTTTGAC AAGGGCCAAT AAAGAAATAT GCAAAGACAA 120
 AAANCAAGAA GNACATTGTC ATATTNCTA CCTTTTGTTC ATATAAATTT ATNTCANTGA 180
 TTTTCGCTTN TGTTAATNTG CAATGTATAT NNTATGCTAA CNTTTNCN 228

SEQ ID NO:6151

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07309

SEQUENCE DESCRIPTION:

GATCACAATT GTGGACATTA AAACAGAAAC TGTTACACA AA 42

SEQ ID NO:6152

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07311

SEQUENCE DESCRIPTION:

GATCCAGCTT ATNCTTTAAT TTTCAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60
 TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120
 GAGACCTGGG TGGTGA CTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTGAGT 180
 GCTTGATTTT AGGTTTTATT TTTTATGAA TGTCCAAATC TGTGTTTCCC CCTGCCATCC 240
 CAGACTNTGT GGCCAGTTNA AAAGTGTCTG GNNTGTGTTC ANCTCTNCCC TAANATNCTG 300
 GAGNAGGGGT N 311

SEQ ID NO:6153

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07312

SEQUENCE DESCRIPTION:

GATCTNNGTG GGTAGCCTCA AGCTGGAGAC ATTGTCTGNC CTCACTGCCC ACTGGGTAGA 60
 GACACCTGGA TGACATTTC GTACCCGCTG GCAGCTCCTC CCACTCATCC AGAGACGGCC 120
 GGTGGGCAGG CGGGGAGAGC AGCTTTCCTT CCCTGGNGAG AACCGTCTT ACCTCAGCTC 180
 CTAGGGNCTC CAGCCAACAA AGCTNCAGCA CGGTGACTNG GTGATGGGNG ACCAATNNCA 240
 GAAGTAAANN GACTGTAGAC CNATATTCCN 270

SEQ ID NO:6154

LENGTH:40

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07313

SEQUENCE DESCRIPTION:

GATCAAATTC TAAAATAAAG TTGCCTGTTG TGACTTTAAA 40

SEQ ID NO:6155

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07315

SEQUENCE DESCRIPTION:

GATCTATACT TAACATATTT AAAATAGTGA TGATTGAAAT AACTGCAAGG TATAGATGNA 60
 ACTGAAGGNT TTCACATTCC TTTTGTGTTT ATCATTGGA ATTTNCTGTA TTTANCTGNC 120
 TAGAGANCAN 130

SEQ ID NO:6156

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07316

SEQUENCE DESCRIPTION:

GATCATATCA CTCAATGTGG CCATTAATAT TTCTGGAGAA GACACAAACC TATTATAAT 60
 ACTTTTNAAG AATCCGAAGT GATAATAAGA NTGTTTTTAC ATTGAAAGTA ATACTTAAGT 120
 GTTACATAA CATTCTGTAT GCACTCAAGA AAATAAAGTT TTGTAATAC AAA 173

SEQ ID NO:6157

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07317

SEQUENCE DESCRIPTION:

GATCTCAGTT ACAGTTTTTT TTTCTTTTT AATTCATTA TTTGGGTTT TTGGTTTTTG 60

CAGTCCTATT TATCTGCAGT CGTATTAAGT CCTATTGCTA GAATAGGTTA CTNNANGAAA 120
 GATTATATTC TGAAAGAAAA ATAAGTACA TTATATATAA CCAATTAATT TAANGTATTG 180
 CCATTTAAAT TACACACTGN GAGCATGTCC TATGCAGACA ATAGATTTTN CCTGTNCAAN 240
 NNNTTNTN 248

SEQ ID NO:6158

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07318

SEQUENCE DESCRIPTION:

GATCCAGCAG CGCAGGCAGG AGCTGGAGCA GTCGCTGGTT GTNCGCAACA CCTAGGAGCC 60
 CAAAAATAAG CAGCAGCAGC GAACTTTCAG CCGTGTCCCG GGCCCCAGCA TTTNCCCCG 120
 GGCTCCAGCA TCACTCCTCT GCCACCTTGG GGTGTGGGGC TGGATTAAAA GTCATTCATC 180
 TGACAAA 187

SEQ ID NO:6159

LENGTH:21

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07319

SEQUENCE DESCRIPTION:

GATCATAAAT CCCTGTCTAA A 21

SEQ ID NO:6160

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07320

SEQUENCE DESCRIPTION:

GATCAAACGT GCTTAAGAGC TAACTCGTGA CACTATGCAG TATTGTTTGA AGACCTGTTG 60
 TTCAACCTCT GTCTCTTTAT GTTAACTGGA TTTCTGCATT AAATGACTGC CCCCTTGTTA 120
 AA 122

SEQ ID NO:6161

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07321

SEQUENCE DESCRIPTION:

GATCTCTGAC TCATTGTGGC ATATGAGGTG TAAAATNTTG TCAAAAAGA ATCTGGTGTT 60
 TAAACCAAAA TCACACTATG GTGGCATTAA ACCGTTCACT TTTATTCTAA ACNNNANCCA 120
 NCGCN 125

SEQ ID NO:6162

LENGTH:41

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07322

SEQUENCE DESCRIPTION:

GATCTGTCCA CGACATGGAA AATAAACTGG ATTTTCAGAA A

41

SEQ ID NO:6163

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07323

SEQUENCE DESCRIPTION:

GATCCTATAC GTGAAGGAAC ATATTTAATT TCCTCNCCTT ATATTTCCCTG GTTAAAATAT 60

CGTCATTATA GTTAGCAATT TGGAATCTGG CTTACATTGG TTGATACAAA TAANTAATAG 120

ANTANNGCAA NATCAGN

137

SEQ ID NO:6164

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07324

SEQUENCE DESCRIPTION:

GATCTTTTTT CTATGCGTAA TCAGACATAC ATATATACTG CAGTGTATCT CACGTATTAA 60

TTTTAAAAA TCITTTGTTT TACTTAA

88

SEQ ID NO:6165

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07325

SEQUENCE DESCRIPTION:

GATCTCTGTA TTTGTNTTTC AACTAACAAC TAATTTNAAA TGTATTGTAT CTTAATNAC 60

CTGTNCTCTT AGATTGTNTT TTGCTAGTAA CCCTTACTCA GCTTCTGCCT TTGGGGCTTG 120

GACTAATATT GCTTGTATGG AACTACAGTA CTGTGACTAA ACATGGAGCT CAATGCAGCT 180

ACTGCTTACA ACTGCTTAAA CTTTGTAGTG TGGACTTCAT TTTTCTGT AATAACANCT 240

TATTAAATCC TNGGTGGTAT GGCGGTCCTG GAAA

274

SEQ ID NO:6166

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07326

SEQUENCE DESCRIPTION:

GATCATGTTT AGAAAGGGAC TCATTTGGTC CCACTTTGTA ACATGGGAAG AGTAGAAGAG 60

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AAAATTAAT GTGGAAATCA TAAATGCTTT TCTAACAGGG TTATGCTATT CTGTAACACT 120
AAATGTCTGT CTTTCTCTT AAAAGATTAA GTTTTATTAA TTTTGCATA CATTCTCTA 180
TTTGANTATA TCTTAACCAT TTTATGTTCC AAATTCGTTT TTTGTCCAAG ACATTCTATC 240
AGANTTTTNC TTGCCTCTAT AAATCTGAAA ANTGGGTTCT AGAATGTCCC ACTTGCTGTC 300
TCTNAGAGTN 310

SEQ ID NO:6167

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07327

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTCAGCCTC CCAAAGNGCT GGGATNACAG GCATGAGCCA CTGCACCTGG 60
CCTTAACCCC TCTTTAGATT GGAAAAATA NTTACAACCT TAAAAATAGC TTAGTGTGTA 120
ACCCTTTGGT AAATAAAGA CCCTTTTATA ATGCACATAT TCCCAACANG GTTAATATAT 180
TTNGTGAGAT TAAACAAGGC TTGTATATGC TTGACCTTTC TTAANNTATG TCCATGTCAT 240
ACTATTATGA NTGTACATTT TTATGAGTCA TNANTATTNT TTTCAAAANG CGCTNCAGGC 300
CCNTGAN 307

SEQ ID NO:6168

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07328

SEQUENCE DESCRIPTION:

GATCAGAAAA TGTGTGACCT TTTTAAAGTT AAATTGTAA AAAATTTTAA CTATTAAACA 60
TTTTAAATAT TAAA 74

SEQ ID NO:6169

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07329

SEQUENCE DESCRIPTION:

GATCTCAGAT GCTAGAAATA GTAGACAAAG ATGTTATTTC CCAGTGCAAA TAAAGAAATA 60
AAGATAGCAA A 71

SEQ ID NO:6170

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07330

SEQUENCE DESCRIPTION:

GATCTCAATG TGCAAACTCC TTGGACTCCA GACCCCTGTC TGGTTGGCAC TCCCAGCAGT 60
GTGTGGTTTC ATCAGGAAAT CTTGCAGCA GGGGTTTAGA TGGTTCCTTC AGGAGGTGGG 120

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NAGCCTCCAT AGCATTGAAG GCCAGCCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCNCTC 180
 ACTTTCCCCT CACCCATCCC TTAAAGTGA TTGGCTGTNA GGNGCACAGA GGGTGGCAAT 240
 TCCATCTGTN ATGGGNTCAG AAGGCATTNG CCGCCATTNT TGATTNACA TAAAACTGA 300
 TGNAAN 306

SEQ ID NO:6171

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07331

SEQUENCE DESCRIPTION:

GATCTGTCTG TTGTTGGAAT TGAGATATTA AAATCCCCTA CTATTATAGC GTTCCTCCAG 60
 TCAAA 65

SEQ ID NO:6172

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07332

SEQUENCE DESCRIPTION:

GATCTTCCAG CACCAAATTT AGATGGCCTC AAA 33

SEQ ID NO:6173

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07333

SEQUENCE DESCRIPTION:

GATCAAATGT GTGAGAAAAT CAATGGGTTT TAAAGACTAT TCTATGTCAA CTATAACATT 60
 TAATTTGGGG ATTTCTGTCC CTTATAATGT CTACCTCATT TTGGATGGAA TCCTTGAGGC 120
 CTGGTTTATT TTCCTTTNCC TTNCTACACA TCGCTGCTCA GAGTGATGAA TGGAGTTGTG 180
 TTTTGAATAA AATATCTATG CATCCNTTGT TGAGCAAA 218

SEQ ID NO:6174

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07334

SEQUENCE DESCRIPTION:

GATCATGTTT TAACTAACTT CATTTTGTTG CTGAATCATA ATNNATGCTC TAATGACCTT 60
 TTCTTTCCTA TCCCAACCCT GTGTAATCTG CTCTATTTAG GGCTAATTGT TCCTTGTCTT 120
 GTATGTATGT AATGTGTCCT NGTNTTCTTC CTCCTATTN NTNCTATAA AACTCCATCC 180
 NNTTTN 186

SEQ ID NO:6175

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07335

SEQUENCE DESCRIPTION:

GATCCATTCA ACTTGTGTGT ATCAGTAGTT AATTNCTTTG TATTGGTCAG CATTCCATTA 60
TTTGGAAATTT ATACAGTATG TTTATCCATT CACCTGTTGA AGGACATTGT TTCCAATGCT 120
TATTACTAAT AAAGCTGTGA TGAACATTCA AA 152

SEQ ID NO:6176

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07336

SEQUENCE DESCRIPTION:

GATCTGTATT TAATGAGGAG GAGCCGAGGC CCCAGCTTCA TCCAGCTTCA ACCAATGCCT 60
GGACCTGTCC ACCTGANAGG CCCCTGGGGC TCCCCAGCTG CTGGCCAGAC CCTGGCGCTG 120
CCACAGTCCT GGCAGTCCCC AAGGCCATAC CTGNCTAGCC CTTTGGNTCC ATCCTGTGGA 180
TGCCCACTCA CCCCTNAGAC TCCTNCTGNC CATGCTGTGG NCGGACTTGT AAGCAN 236

SEQ ID NO:6177

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07337

SEQUENCE DESCRIPTION:

GATCATGCCT GTGTTTACCC TCTAAGCTGA AGCTGCTCAT CAACGGTGAG ATGGCAAAAA 60
GGTGGGTCCA GAAGAGGGGA AAAGAAGGGA GTCTGTGAAA ACAAATGCT GAAGANTCTG 120
CATCAAATAA ACCCTTCCTT CCTTCAAA 148

SEQ ID NO:6178

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07338

SEQUENCE DESCRIPTION:

GATCTCCTTA TTGACCACAG ATTATTCCTC TGTTCCAGCAC TCCTTATTCT TATCCCTGTT 60
ACAATTCTTA TTATGGTGCA CAAGCTCCAT AAATATTAT AAAACTGATA TTAATTGANT 120
AAAATATTGT CTAGAGGTCT CAGTCATTCT TCAAA 155

SEQ ID NO:6179

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07339

SEQUENCE DESCRIPTION:

GATCATCTAG ACATAATTNC TGAAGATGAA CTTTGGACC AACTTCTAAG TCACACAGCA 60
 TCATTATCAG ATTTATTACA CAACGNCTTT TTNGTTTNA CTCTATTTCT GAGGAAAAAG 120
 CCTTCCCGAA ATCCGTAATG ANTTNTCCA TGGTAACCCC TCTCCTGTTT TNACACAGNA 180
 AAGTTTCTCT NGA CTGTN 198

SEQ ID NO:6180

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07340

SEQUENCE DESCRIPTION:

GATCGCTGGT TTCCTCTGCA GCGCGAGGGC TCCGGCGACC AGAGGATTCT NCCCGGAAGG 60
 CATTCTGCC GCGCTCCNG GGGCACCCCT CAATTGTGTA CTACGTCCTT GTTTAGTGTG 120
 TATCCGTGCC CACGTAGATG ATGTCTGTAA CGNAGTTTGT TTTGAAATAT GAGNATATGC 180
 GGCTTAAA 188

SEQ ID NO:6181

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07341

SEQUENCE DESCRIPTION:

GATCAGTTTA TTATTGATAC ATCACTCCAT TAATGTAAAG TCATAGGTCA TTATTGCATA 60
 TCAGTAATCT CTTGGACTTT GTTAAATATT TTNCTGTGGT AATATAGNGA AGAATTAAAG 120
 CAAGAANNTC TGA AA 135

SEQ ID NO:6182

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07342

SEQUENCE DESCRIPTION:

GATCAGTTTT CCNAGTCTTT GGGAAACGGG TTGTGTTTTT TNCCCTTTGC CGTGTTGGAT 60
 TTCCGGTCCC GGCTGACACC TCCCTTCGTG TGTGCGNCCC TCCCCACCCC TGCCTTTGTN 120
 TCGGTGCCCT GTGTCCGTTT TCTNATGTGG GGATGTTTGT GCTGCAGACA AAAAGAACAA 180
 NAAAAANTTT TTAAATACCA CAAAGATGGN ANAAAANGAC AAAANN 226

SEQ ID NO:6183

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07343

SEQUENCE DESCRIPTION:

GATCGTCACA TGCCGGGGAG CAATGTGGAT GGCCTGGGGA CTCCTGGGTT TTCTCCCTCC 60

CGACTCCCTA ATAAACCCCG TGAACCTTGG AGCCAAA

97

SEQ ID NO:6184

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07344

SEQUENCE DESCRIPTION:

GATCACCTTN AGTNCNAGC AGGGACTAGG CTTGCAGGTA ANATAATGGG CCAGGGCACC 60
 CAGTCCAGAA GGAGCAATGG CACCTGGGCA GTGCCAGGCC TTAAAGCCCG CTGCTCCTTT 120
 NCGGTAGAGG AGAGGCCCAT CACTGGTGTG GTGGGGTGGG CTCTCCCTTA GGCTTGGGCA 180
 AGGCAGCCAC CTGCCCTTNC TCTCCCTTAG TGTCCCTGG CCTCCCTGCC ATCAGGTTGC 240
 TGGGAGTGA GATGGAGGGA TTATTGAGCA GAAAATNAGT TGGATGGAGN TAAACAGNTC 300
 CCATCCCTGG GTAATGGATT N 321

SEQ ID NO:6185

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07345

SEQUENCE DESCRIPTION:

GATCAGCTTG GAAGCTTAAA GTCCAATCCT TACTTCGAGT TTGTTTTGAA AGCAAATTAT 60
 GAATATNATG TTCAGGGACA AATATAACTT TTNCTAAAAA TGGCCATTGT TTATGAAATC 120
 TGTATAAGTG TGTCTTATA CAAATTTNAG GCCATAAACA AGTGTAAGTT TGTACAATTT 180
 CATAACATGT ATAGCTGAGT TTTTATACTT TATATGTAGG AAGCTAATAT AAAATAGTTA 240
 TGTAAGTGT ATTTTGGTTT TCAGTTATGT GACTTGTTTT TNCCACCNGA AA 292

SEQ ID NO:6186

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07346

SEQUENCE DESCRIPTION:

GATCCATAAC AGAGATNCAN AGAGGCACCG TGGAGTTCCA GGGTCATCGG TCAGCGAGGA 60
 ACAAGGAGGG AAAGGTGTCT TCCTGCCCTT TGATGCTCAA CTAAGCATCT GTTCCCTAGA 120
 AATACATGTG TCCAGGNNGN NTCCATGGGC TTTNN 155

SEQ ID NO:6187

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07348

SEQUENCE DESCRIPTION:

GATCTTNAGT TGTTTTAATT TTTTTTTTCT GCATCTGAAT CTGCATGATT TCCAAACCCT 60
 GTACCATCTG AATTTTGCAT TTNAGCACTT GCACTATTAC TCAGCAGCAG TAACATGGTA 120

ACACTTAAAA TGGTACTCGG GGACCTCCAA AGACTAACT GNCANGCCTT CAAGGNGCCC 180
 AGGGGTACGT TANCTTGTC ACGGCATGGT TTAATCCCTT CTTTACACTT GTGTAAATTT 240
 CAGTTACTGG TCATAGNNGG CTTTCAATGT TGCCTGGCCT NTTATTANCN TGTTTATGGG 300
 N 301

SEQ ID NO:6188

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07349

SEQUENCE DESCRIPTION:

GATCTTTATC AATATTCTGG ATTAGACAAC AAATNACCTT TCTGGGTGTT TCTTGTAAC 60
 TATACTCCTG TTTGAATGTT AAACCTTGT GCTAAAGTTT AATTTAAGA TGTTTGAATG 120
 TNCAGTTTAT GTATTGANC TACAATAAAC CAACCCTTTT NATATATCTG TNTNGTATAT 180
 GATTATNGTN ACTTAATTNT NAN 203

SEQ ID NO:6189

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07350

SEQUENCE DESCRIPTION:

GATCAAAGCA GGTGGGGCTT TGGGATGTGA AGTGGGTCTT NACGCGGGGC CCCACAGACC 60
 TGTCTCCGCG TGANTGCCTG CAGGCCCTG CGTCATTCCT CAGCTGCGTG CGAGGCCTCT 120
 GGCTTGGAGA GCCTCCCCGC TGTGCACAGT TCTCTCTTG CCAGGGCAGG GCTTGGGGCA 180
 GCACCAGGCT GGGGCAGAGG AGGAAAGCAA GAGGACAGAC CTCCAGAAGA GCAGCGGAGG 240
 GCGGGTGAGG ATTTCCCAT ATACCAGTGT GTGTTCTCT ACCCATGAGG AATAAAACCA 300
 TGCAGCAGCA TGCAAA 316

SEQ ID NO:6190

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07351

SEQUENCE DESCRIPTION:

GATCCCCAGN ACTGCAGCCG AGCCCCGGGC TTCCTTTCTT ACCATTCTGT ATGCTTCCAA 60
 GGTGTGACCA TTCAAATAA CNNTATTATT AAGATTATTA ATAAAGATTT CTTTCTCAA 120
 ACCAGGAAA 129

SEQ ID NO:6191

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07352

SEQUENCE DESCRIPTION:

GATCAGAATC AGAAAACAGG TAAACCTCAC TCACACATTT GGACTCATTT GAACAAAAAT 60
 CTAGGCCAAA ATACTGAAAA GCCTATGTGT TTTTAAATT GGAAGTATAT GTAAGGTAA 120
 TGCATTTAGT GAACGTGACT AACAAAGACT AATGTGCACA TTAACAGNTG TNCTTTTAA 180
 GGTTTTATGG GAGGCTGTGC ATTGCTCAAA AGCTGTTGGG AACGCCTTCT GACCAGTTGC 240
 CTTCAGAACT AGTTTNGCT GCTCANTNAA AANCCAGTGN NTTTACTCNN GGN 293

SEQ ID NO:6192

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07353

SEQUENCE DESCRIPTION:

GATCTGCATG TGTGACACTG ATTCTTTGGA AATAAAGAGT GGAAGCTGCA AA 52

SEQ ID NO:6193

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07354

SEQUENCE DESCRIPTION:

GATCTAAATT TAAAAATAG GAATGAATCT NTAATTGCA GCTTGTGGAG AGTATAAAC 60
 ATTTGAGCA CAATATGCAG CACATAACTT TTCAGATTGT GTTGCATAG AAAAGGTAA 120
 AATCAATTCT TTCAGTTACT GTATTGTTCA TTTCTTGTA AGGTCTTCCT ACATTGAGA 180
 CGAGACCCTT TAACATAGGC TGCCTTAGTA ACAAATAAA ACAGATGTGT CATAAA 236

SEQ ID NO:6194

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07355

SEQUENCE DESCRIPTION:

GATCTAGAGG GNGGATTCC AGCCAGGGCT GCTAGACGGA GGCCTACTCT TCCATCTTC 60
 CTGATGGCAG GATGGCCTGG CCAGGGCCTG GAAGACAGAG ACCTCCTGCC TCCGCCTCAG 120
 TAAGACGACA AGGAAAGGCA AATGCCCAAG GGAAAGAAAA GGAAGGCTCT TCTCCCAGA 180
 GTTCCCATG CAGACATGAG TCGTGCTCA GTTCAGANTC ACTCCGAGA ACTCATCCCT 240
 AATGCTGCAG ATTTGGGCTG GAACAGATTC ACACGTCTG TN 282

SEQ ID NO:6195

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07356

SEQUENCE DESCRIPTION:

GATCTTCATC TCTGTTTGC TCCACTTGTA TTCTCTTTC AGTAACTGGA TTAATGCTTT 60
 GAGCCCAAAA TGAGATATAT TTNTAATTAC TGTAGATTAC ATGTTGTTTG GCTGGGAATA 120

CAATACAATA AACTTTATTT TGCATAATGC ATTTCAAA

158

SEQ ID NO:6196

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07357

SEQUENCE DESCRIPTION:

GATCTGGATT ACTATGTAAA TTCACAGNAG TACCGCTAAT ATAATTTTGT TTGCNTGTAT 60
TANCATCATC TGGTCTGNAA ATGTGGGTTT TTATTTGGCA CATTANATA AAN 113

SEQ ID NO:6197

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07358

SEQUENCE DESCRIPTION:

GATCTGGAGC CACAGTCTGT NTATCTTCCA GTTCATCTCA GTCCTCGAGA AAGGCCCTNT 60
AAATATGTAA CTTTCCCAT TNCCTTTAAC CATGGGTTGT GTGAGCCAGA AAGAGCTTTG 120
AGAAAGATGG CTGCTTCCAC CAGGGNGGAG GCTTCTNGGT CTGCATGATG ATGGGGCCCG 180
TTTCTGGCCA NAGGGTGGCT CTGGGAGCAG TTGTNCTGCG GGCTTGCTGG GGGCGAACTC 240
TAACTGTTGC AGAAACAGNG CTTNATGGCT TGCTNNGGGT ACTTAGCTGG AATATTTTAA 300
AGTGTCAGNT AAATGTGATN TNN 323

SEQ ID NO:6198

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07359

SEQUENCE DESCRIPTION:

GATCTGTATG TACTTTTAGT TGTATTAATA AAGTGACAGT GAGTGTCAAA 50

SEQ ID NO:6199

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07360

SEQUENCE DESCRIPTION:

GATCACCCAG TCTTAAGGTT TCAAAAAC TC TTTGACATTA GATTTCACAA CTGCACAATT 60
GANCCTTATT GCCTGTAACT TATTTNCTAA ATGCTCAGTG CTATTTATAT ACTACAGTAN 120
TTNCCTGTTA AGNNGGCAGT TGTAAGNN 149

SEQ ID NO:6200

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07361

SEQUENCE DESCRIPTION:

GATCGGACTG GAACTGTTCC GCTGCNACCA GAAATTNATT TTCCTGAGTA AATTGCCGAG 60
 AATTAAGAAT GAAGAGGGCC ATTTGCATCT CCTTAAATTA TTCAGTTACC TGCTTTATTG 120
 CTCCATGTGG AAAACTTAAA ATTGTTAAGT TGTGCATTAC TGTATTTNAN CTTGTTGCTT 180
 AGTTTCTNCA TGTTTATTTN CAGTAATGGC TGANAGTGTT AACTGTNCCA TACTTTTNGC 240
 ACAATGTNCT GCATAAGGTT ACCTGTGTAC AGAGTTTTAC TTTAGNTTAN CTAATAATATT 300
 GCCTGGGTTT AGTNTTNATT TCCATTNTN 329

SEQ ID NO:6201

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07362

SEQUENCE DESCRIPTION:

GATCTAGGAT GTGGNTGTGG AGTACTTAGC ATCGGAACTG CAATNTNAGG AGCAGGGTTG 60
 TGTGTTGGAT TTAACATAGA TGAAGACGCA TTGGAAATAT TTAATAGGAN TNCAGAAGAG 120
 TTTGANTTAA CAAATATTGN CATGGTTCAN 150

SEQ ID NO:6202

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07363

SEQUENCE DESCRIPTION:

GATCCAGGCG CCTGGGCAGA GCACCTGCTG TCTGCCCTGC ACTTTGAAGG GTTGTCTGTTG 60
 GGATTGAAAT NAACCAACTG CCGGCTGAGC GGAGGCTCCC TGGGAGTNAC AAGTTCCGTA 120
 TTAAAATGCT TTCAGTGGNA AA 142

SEQ ID NO:6203

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07364

SEQUENCE DESCRIPTION:

GATCTATAAA ATTTCAAGTTT TAAAAAATGT GTTAAGGCTT TGTTTTTGGC CTAACAGGTG 60
 GTCTATAAAG AAGNAAGTTG TATGAGGTAA TGAGAAGGCT GTGTATCCTG ATGTTGTCGA 120
 GGAGTGTCT CTATACCTTC ATTAGAAATA ATTGTNTTTT TACTGCCTTC TAGTCTTCTG 180
 TTTCCTTACT AATATNCTCT CTTGTNTTAT TACAGAAAGT GGNGTATTGC AATATCCTAC 240
 TATAATTGTN TTGCNCTCTT TGTGTTNATC CCAGTNTNNG TNAGTNTANG CTTN 294

SEQ ID NO:6204

LENGTH:306

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS07365

SEQUENCE DESCRIPTION:

GATCCCAGCC CGGCCTTTGT GGGACTAAGG TGGCGCTGAG TGGGAGAGCA GCAGGCGATG 60
CGCGAAAGGC GGGACTTGGA GGTTCCTGGAT GTTCCTGTGG ATAACCTCAA GGAGCACGGN 120
ACCTGGGACA TGACTGCCCC CAGCATTCTT TCTGGCGGCA GACAGNGTTT GTNAGTTCGC 180
CAACATCCTG CTTTCATGNG AACAGTTTGC TGTTCGCTNA CAGAGCCTCC AGTNGTATAC 240
TGAGTTGGTC ACGACCTNA TTNCTTCGNN CCTACAAACA TNTCCACTT TTCGNTTNTN 300
TGGTTN 306

SEQ ID NO:6205

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07366

SEQUENCE DESCRIPTION:

GATCTTCAGT AAATATTTTG AAATGAATTC ATTTATGGAA GAATCAAANC TAGGTCAGAT 60
TGTCCAAACC AGACTAAGAA ACTGCATAGG GTNTTTTATG AGGTNTTTAA TGACTCATCA 120
GCNCCATTAT ANCTGANATT NCTACN 146

SEQ ID NO:6206

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07367

SEQUENCE DESCRIPTION:

GATCTCACTG CCCAGGCTGG TCTTGAATC CTGGCCTCAA GCACTCCTCC TGCCTCACCC 60
TCCCAAGCG CTGAGATATA GACCTGAGCC ACAGCGCCTT GCCAGTTGTT TTATGTTCTT 120
TATCCTTTTA CTGCTTGCC TTCTGTAACC TGGGTTGCAT TAAATTTACT CCTACTNGTG 180
AGTAAATGTG AACCATAGCA ATAAATTTAG TCTATCCCCA GAACCTTCAG TAGCAAGGAC 240
CNATATTNCT ACGGTATTG TNTGTGTCCA NANANAAATA AAATTACCTT NAAAAANN 298

SEQ ID NO:6207

LENGTH:28

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07368

SEQUENCE DESCRIPTION:

GATCATTAAA GATAAACATA TTTTAAA

28

SEQ ID NO:6208

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07369

01814

SEQUENCE DESCRIPTION:

GATCCTGTTG GCAANGGGA TGTAGAGCTT CCAGGGTGCA TTGCCCACTG TTCTCATTGC 60
 ATCCCAGTCC TCCAAGTCAG TCTAGCCTTA CTGTACACTT GACAAGTGCT TACTCAGCAA 120
 GTCCCAGACC CACGNCCTNT TATCTCCNAA GACTGGNTTT GGCCATGNCC TTCCTCATCA 180
 GGCCTATGCG CANNANTATN TAGGN 205

SEQ ID NO:6209

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07370

SEQUENCE DESCRIPTION:

GATCCATTTA ATATGTTATC CCCACTAATT AATTTTCGTA TATNATTTCC AATATTTGGA 60
 AAGCTCTTTA TAGCCATTTG GTATTTCTTA TTACCCACCT CCTATTTTAA ATATTTATCA 120
 GTCTAAACTT GTGCAGTGTA GTAAACATGC AAGTTGTTAT GCTTGAGCTG TATTACCATA 180
 AGTNGCNTTT TANGTAAACT GGTGNNTTTG GGCCATAGAT GTTTTGCTT TTTGTTTGAT 240
 TTTNTNTTNC AGGCTAACTG TTNGNGGTAT ACATNTATTT NTCTGTTGTA CAGATTTGAA 300
 NN 302

SEQ ID NO:6210

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07371

SEQUENCE DESCRIPTION:

GATCCCCCAC ACCAGCGCCC AAGAAAGGAC CAGCGTTGCA CAGCCCGGTA GAAAGGGTTT 60
 ATTTATGCGC AACGGTTCAC ACAAGCCTTC CTGAAATTCC ACTTTACAGT AAATAAAGCT 120
 GTGCGTTTCC CCTTCCCATG CACAACATGCG TATCAATCTA CAACTGTCAT TTAACGTGA 180
 AAAAATAGNG CGTCTCCCTT TTTGTCATCG TTCTGGTAAC ATTGGCGTA GCATCTGACA 240
 GCACGGAGNT GCTCACTCCT GGACCGGTTA TTTGGTTAAA ACCCAAAATG TTAGGTCGGA 300
 N 301

SEQ ID NO:6211

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07372

SEQUENCE DESCRIPTION:

GATCCATTTA ACTATTCATC AGAGGTGCTG TAATTTTAAA TTGTCTCTTG TCTCCTTCAG 60
 TTAATTTTCA GAATTAAGAA CATACCATGG GNAAGAAAAA CNCNAANCAN N 111

SEQ ID NO:6212

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07373

SEQUENCE DESCRIPTION:

GATCCTGGAA ATNAGATGGG CCTTACTCTG TCGACTAAAT GAATAGCTAT TTTCTTGTC 60
 TTTTAAAG TGCAACTCTT GCTTCATGCT GCTTAAGTTA CCAGATGAAT GCTGNGAAAT 120
 AAGTAATCAC AGNCATTTTA ATACCATTTC ATTGCTGTTT TACGCGTGTT CATTACTTAA 180
 CAAAAAATTA TCTTTTAGCT TTTAAA 206

SEQ ID NO:6213

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07374

SEQUENCE DESCRIPTION:

GATCTAGCCT GCCCTGCCTG CCTGCCCTGG GCGATGAGGT ACGGTGGGGA AGGTGCCTAT 60
 TTTAGAGAAC TTTGTCACAG TATTAAAGTT CCCAGAACAA A 101

SEQ ID NO:6214

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07375

SEQUENCE DESCRIPTION:

GATCTAGAAT GTAATAAAT TGCTTATAAA TGTCAGAGCA TTTTNAAG GTACAGTATA 60
 TGGGATTGT NTCGTTTTTC CTAGCAGGGG AACCTTAGTT AATANTAAAA TACTACTTAT 120
 TTGAGTTACT GNTACAGNTT CATTAAAGGC TTGTGTGCAA ATGTGGTCTC ANTCTTTTTT 180
 CCCTCCATGA TTTTCCTATG TGCTTCCTCT GGCATTCACT GNGGTTTGG TAAANTAANT 240
 TGCCNNTTAA NN 252

SEQ ID NO:6215

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07376

SEQUENCE DESCRIPTION:

GATCAGGAGT ACCTCCCTCA AGAGTCGAGG GNGGTAGATT TCTACACGCA GAGGAGGTGC 60
 TGACTCCTCA GGGCAGCCA GCAGTNGNNT GTTGCTTTN TAAGGGAGGG CCACTAAGAA 120
 AGTTAGTGA TTGCAAAGTT GGTTCCTGG TGGNAGTTAG ANCAGACCAA CATTATATGC 180
 CATAACTTTA NGAGTTCCAT AGGTGGCGGC GCAGTTCTTN CGNATCAATG TNTAACTTTG 240
 NGGGGGGTGT TCATTTN 257

SEQ ID NO:6216

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07377

SEQUENCE DESCRIPTION:

GATCAGACAT AAACCTAGCA TCTTAATGGA AGAAAAATGA GGGGAACCTC AATTATGATT 60
 TATTAAAGAC AATTCTATT ACACCCTCCT TTATGACAAG TGACATTTTA GATGTAAAAG 120
 TAAAACTTT ACCATGCCTT TTTTTTTTTT NGTGGGCCTA CCTTNGGGGC NTNAANCCCN 180
 GGGGNCCN 189

SEQ ID NO:6217

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07378

SEQUENCE DESCRIPTION:

GATCTCGCAA TGTCTGCCCT AATATTTTAC AATTAAACCT TTCATATTTA TTATAATTG 60
 GTAATATTCA TTAATTTTCC TGTCTTTTAA AAGTCTTGAT AGATTTGTCA AAGTATATGT 120
 NCTTTTCCCT ATGCTGGTTT AGAAGTNCGA NATATCACTT CTAATAGTAA TTATGCTCAA 180
 NTAGGTACAC ATACATAC ATNTTCTCT CNCNCTTTAT ATACTTNTGT GCAATTGGCA 240
 CTTTGTACGT ATGTCATANN NNTGTCATNC CN 272

SEQ ID NO:6218

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07379

SEQUENCE DESCRIPTION:

GATCCTCGGC CTCCCAAGT GCTGGGATTA TAGGCATGAG CCACCGTGCC CAGNCTAATT 60
 TCTAATTAAT TAAA 74

SEQ ID NO:6219

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07380

SEQUENCE DESCRIPTION:

GATCTCGTCT GCTCACCTTA GCTTTCTGCC TTGGCAGCAC GGGCTGCGGA AGAAAGCACG 60
 CTGGGCCAGG AGGCAGGGGT GCCCAAGCCA CAGGGAGCCC CTGGGGAAGC CTGCTCCATT 120
 CTTCTGGTGA CTTGGCGCT CTTCACTCA TCTCCCTGC CCCCTCAGGA ACTGGTGGCC 180
 CAGTTCCAC ACCNNACCT CCCAGTCTCT AGNCTATCCA TCTGTCTGTG TATGGCCTGG 240
 AGTCACTNCT TCCTCANGCC CCCAGGGNAA NGTGTGCTCA AAATAAAAC CAGNGGNCTG 300
 AAA 303

SEQ ID NO:6220

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07381

SEQUENCE DESCRIPTION:

GATCCCCCTT CCCACATCCG TGCTGTGTCA TTGTTGCTCT GCTTCCTTTC AATGTGTCAG 60
 TGCCTGGGGG GAGGGGAGGA GCACCCCTC AGCCCCCTG AACCTGACCA AAAGCCATGG 120
 CTGTTGCTCC NNNCTTTGTA TGATGCAAAT GCTGAAATGT ACAAATCAA CCATGACAAC 180
 AANGAAAAAG GCCTTGTTACA GCAAA 205

SEQ ID NO:6221

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07382

SEQUENCE DESCRIPTION:

GATCATAAAA ATGAAGGAAA ATGCCCAAGC ATATCCCCAA CCCCTCACCC CACAACCACC 60
 ACCACCACAC ATAANCAAGT TGCTGACATA NNAGGGGGAC CTTTTTNANN 110

SEQ ID NO:6222

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07383

SEQUENCE DESCRIPTION:

GATCGCATCT CATGTGTAAC TCTTTACTGA TATGTTTGTA AATACAGAAG TGAAATGTGG 60
 ACATAAAATA GTTACGCTAT TTGGTTAATG GTACTAGACA ACATGTAATT AATGACATTC 120
 AAAAATTTAT GGCTAGTGAT ATATATAANG TAAAATTTTC TTGCAGTAA AATATGCCCT 180
 TNATTATNGN CGGGNGGCTA TANGGNCCA ACAGTTTGTA TGAAANTAGC TCCNAATCAT 240
 ATCTNTNN 248

SEQ ID NO:6223

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07384

SEQUENCE DESCRIPTION:

GATCCCTTTA CACTCTTCAA AAGTGNGAAC CCCAAAGAGT TTTCATGTAT GTGGGTAA 60
 TCTATTGATA TTTTCTGTGA GAATTTAAAA ATTATGTTAA AANAATAAGA NGAATGACTA 120
 TTTTNCAAAA CAANANATGA GNTGN 145

SEQ ID NO:6224

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07385

SEQUENCE DESCRIPTION:

GATCTGCTTG GTGAAGAGTT CAGGAAAGTA TATCAACAAA GGNGTGAANT TTGTGAAGAG 60
 AAATNNTATC ATCAAAATTG GGTAAAGCAT AGNTTTTTTG TATGTTACCA CTAGATGTCA 120

GCATANCTN

129

SEQ ID NO:6225

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07386

SEQUENCE DESCRIPTION:

GATCAGAAAA CATTGATTTA TATTTTAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60
 TTTC AAGGCA AGANCAAGCC TGCAATAAAT ANTGAGNCTT TGACATTCCT TGGCGCGGAC 120
 GATGCTCCTT GCCCTANTAT GACTGTCACT CAGCAATTTC AATTTTATGN NTACTTGATT 180
 TAAANCGGGA GGCTANACTT GNTCTGAAAN GN 212

SEQ ID NO:6226

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07387

SEQUENCE DESCRIPTION:

GATCTTACTG AAGATGATGT TCCAGCAGCA GCGACTTAGC CCCAGGAGCC CAGTTTCAAT 60
 GGCCTTGCTG TGTGGTGTTC CAAGTGCATT TAAAATGTGT GACACAGNAA CGGCACACTC 120
 TTNCACATGC TTTTGNAGTA TTATAANNCA CTTTATTACA AATTTGTCTT NGCTATTAGC 180
 AAATANAAC TATTATCATT CTTTATTAAC CCACCTNGGC CTTTTNNAAN CCTCN 235

SEQ ID NO:6227

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07388

SEQUENCE DESCRIPTION:

GATCTCACTC TTNCCCAAGC TGGAGTGCCG TGGCAAATC ACAGCTCACT GCAGCCTTGA 60
 CCTCCTAGGC TCAAGCAATC CTCCTACCTC AGCCTCCCAA GTTGCTGGGC CTGTAGGTGG 120
 ACACCANCAT GCCCTGTGTA TTTTNAATTT TTTTATATAG AGTTGAGGTC TCGGTATGTT 180
 GCCAACCTAG TCTCAAATC CTNNGGCTCAC GGCTGTAATC CCCAGCTCTC AGGGAGGNTA 240
 AGCGGCGGNN GGNTAGCTTA AGCCNAGGAN TNCGAAGNCC TGNCTTNGGN 290

SEQ ID NO:6228

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07389

SEQUENCE DESCRIPTION:

GATCCATGGG GCCCAGGNCT AGAGGGCATC CGAGGGGCTG GGCCTTGCC ACAGCCTCTT 60
 GGATGATGTC CTTGCTCCAC CACGCAGGCC CTTGCTTCTC CCATCAACGA GTCTTGGCCC 120
 AGGGGACACT GACCCTCCCN CAGGGAGGAG AGAGGAGTTC CTTNCCTTTA AACGAGGGCT 180

2153480

TCCACGACCT CTAAGGGGTG GCGNGGAAGG GAGGAGGATG AGAAGATGNA GATTAAATAA 240
AGGTATGTN 249

SEQ ID NO:6229

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07390

SEQUENCE DESCRIPTION:

GATCTATCTC AGGGCTTGGT GTAAGAATGA AATGAAGTAT AAAGCCATGT AGAGCTTGTA 60
GAATATGCCT GGCACCTTGT AAGACCTTAA TANNTGTAA CTATCTAANC ACANAACAAN 120
CCNCN 125

SEQ ID NO:6230

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07391

SEQUENCE DESCRIPTION:

GATCCTAGTG CTCCTGTCTG GTCAGGGCCT ATCTTTATGT GTTCGTAAAA CTTTAAACAA 60
TGAGNATTAA A 71

SEQ ID NO:6231

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07392

SEQUENCE DESCRIPTION:

GATCTGAAAA GTTATTAAGT TCAACTCCAC AGAGGTTCCCT AGGAGAATGT TAACAGTCCA 60
GACCTTTTTC ACTACATCAA CCACGGATGA TTGGCATATA AAATCCTACT TAACCTTTAC 120
ATAACTGCAA TACCAGGAAA CAAATATGTC AATAAAAGGA AACATCATTC AATTTTGGGA 180
AA 182

SEQ ID NO:6232

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07393

SEQUENCE DESCRIPTION:

GATCAAAAA ACCATTGAGG CCAAGTNACC CTGACATGTG ACATCTACCT CCCGACCTAC 60
CACCCCACTG GCTGGTTCCA GAACGTCTCT CACCTAGACC TTGCCTCCCC TCCTCTCCTG 120
CCCAGCTCTG ACCCTGATGN TTAATAAACG CAGCGACGTG AGGGTCCTGC TTATCCCTGG 180
TNNGGNNNCA GNTCNATCCT TGCATCANTG GGGAGGACGT GATGNGTGAG GAN 233

SEQ ID NO:6233

01820

2153480

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07394

SEQUENCE DESCRIPTION:

GATCAGCCTG TGCCACACTT CGCTCTTGAG GAGCTCAACG GTCTGGCAGG GCAGCAGGAG 60
GCTTTCTGGG CTCTGGNCTC CACGGATGCG TGGGCAGNGG AATGTGGGCT ATGTAGTCAT 120
AATAANTTAG GNCACAGAAA AAAAAAANAA AAAANNCN 158

SEQ ID NO:6234

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07395

SEQUENCE DESCRIPTION:

GATCTCTTTT CATTTGTCAA CCTTTTCAGT AAAGCCCTCT GTTACATCAA A 51

SEQ ID NO:6235

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07396

SEQUENCE DESCRIPTION:

GATCAGCGAG AAGGACAAGA AGAANNTTCT GGACAAGTGT CAAGAGGTCA TCTCGTGGCT 60
GGACGCCAAC ACCTTGGCCG NGAAGGACGA GTTTACGCAC AAGAGGAAGG AGCTGGAGCA 120
GGTGTGTAAC CCCATCATCA GCGGACTGTA CCAGGGTGCC GNTGGTCCCG GGCCTGGCGG 180
CTTCGGGGCT CAGGGTCCCA AGGGNNGGTC TGGGTCAGNC CCTNCCATTG AAGGAGGTGG 240
NTTAGGGGNC TTTGTTCTTT TNGTATGTTT GTCTTTGNGN 280

SEQ ID NO:6236

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07397

SEQUENCE DESCRIPTION:

GATCTAAATA CTGTGTTAAA ATATAGAAAA ACGGAGACTC TNATAAGGTT TTTNACCTCT 60
ACACTTGAAA GTGAGCTCTT ACAAGAACT AATCAGTGTT TCGTTATTCC ATATCAGTGG 120
CTTTTACTGT CAACGNTTGT GTAAGCTNAC TTATCTGGCA AACTTTTNC TCCAGAANT 180
ACTATCTATN TTACTNTNN 199

SEQ ID NO:6237

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07398

01821

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCTC CCAGAGTGCT GGAATTACAG NCGTGAGCAC CGCGCCTGGC 60
 CAAGNAAAAA TTATTAGAAC AAGTGAGGCA TCACACTCCT CTGCCATTCA GTCAAAAGTA 120
 NGCACCAATT TATTAACACA AACATTACAT AATACATGAT ACAGGCGCAA TCTCGCTACT 180
 GCTAGCACTA CGNNAATGTT GTTCTTGAC TATAACATTA AACTGTAAA TACTGACAGT 240
 GAAATGCACC NATANNGGNN ACCTGTCATC ACNGGGNNN 279

SEQ ID NO:6238

LENGTH:21

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07399

SEQUENCE DESCRIPTION:

GATCCAAAAA CTAATTCAA A

21

SEQ ID NO:6239

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07400

SEQUENCE DESCRIPTION:

GATCCAAGTA CTCTCTCTCC TAAAGACACC ACCTTCCTGC CAGCTGTTTG CCCTTAGGCC 60
 AGTACACAGA ATTAAAGTGG GGGAGATGGC AGACGCTTTC TGGGACCTGC CCAAGATATG 120
 TATTCTCTGA CACTCTTATT TGGTCATAAA ACAATAAATG GTGTCAATTT CAAA 174

SEQ ID NO:6240

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07401

SEQUENCE DESCRIPTION:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCAAGA GGAAGAAGTC TACACCCAAG 60
 GAGGAAACAG TTAATGACCC TGAGGAAACA GGCCACAGAN GTGGCTCCAA GAAAAAGAGG 120
 AAATTCTCCA AAGAGGAGCC GGTGAGCAGT GGGCCTGAAG CGGCGGTTGG CAAGAGCANC 180
 TCCAAGAAGA TGCAANAGTT CCATAAAGCA TCCCNAGGAN GNTTAAGAAT GCAAATGGAC 240
 CATTCTCTTG GNNGGTTNGG NCATACCCAT NAGCCCNAGG TGACATTTC CNTN 294

SEQ ID NO:6241

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07402

SEQUENCE DESCRIPTION:

GATCTCGCCC TTACCCCGGG GTCTGGTGTA TGCTGTGCTT TCCTCAGCAG TATGGCTCTG 60
 ACATCTCTTA GATGTCCCAA CTTGAGCTGT TGGGAGATGG TGATATTTTC AACCTACTT 120

CCTAAACATC TGTCTGGGGT TCCTTTAGTC TTGAATGTCT TATGCTCAAT TATTTGGTGT 180
 TGAGCCTCTC TTCCACAAGC GCTCCTCCAT GTTTGGNTAG CAGTTGAAGN GGTGTGTGGG 240
 TGGGCTNTTG GNGTGAGGA TGGAGTNTTA AGTGCCNACT NNCNNCTNNN ACCNN 295

SEQ ID NO:6242

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07403

SEQUENCE DESCRIPTION:

GATCTAATCC CTTCAGGAA GTGATAACAC TGGGAGTGGT AACAGAGGA GCAGGGAAGC 60
 AAGGGCCAGC CCCTGGTTCT CCATCCCNAT GTGTTNGAGG GTGGGACCAG NTGGACCTGG 120
 TCCAGGCCAG GCCTCATTCC TCCTGGNCCN GGCAGGGTCA GAGGGNGGAG GGGCNTGGTC 180
 CAGGNATGGG TCCNTTCCAN N 201

SEQ ID NO:6243

LENGTH:26

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07404

SEQUENCE DESCRIPTION:

GATCTTGGCA GTTGATAAAA CGTAAA

26

SEQ ID NO:6244

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07405

SEQUENCE DESCRIPTION:

GATCGNTGCC TGGTTTGTCT TCTCTGTGTC CTGGAGCAAA GCCAGTTCCT AAAACTAAAA 60
 CTCCATTCTA GTCTTGGGAA GAAAAGTTTC TACTCAGAAC TGGGGAAGGA GTGGAACCTTA 120
 TGACTTGGGC CTCTAGGCTG TCTCTGTCCC CTCAGCTCCC CGACATGCAT TTA CTCTCTG 180
 CCGTGGGTCT GCAGTCGCTG CAACCTACCC TCTCTCTGCC TCAGCCTTAC ACCCAAGCAG 240
 TAGGTCTGTG CTCTCCCTGT CTCTAGGTCG NTGAGAGAGG TGCTTTTNTT CATAAACCT 300
 TTGGGGTTTG GGATTTCCTC AGAN 324

SEQ ID NO:6245

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07406

SEQUENCE DESCRIPTION:

GATCCATTCC GCGGCCTTCC TCTCCCAGTC ACCCAGAGGG CCCCACCCC GCGGNCCTT 60
 TCTTCTCAA ATGTCCTCGG CTCTATACCG TGNCTGGGTC TTTTNTCTNT CTCTCTGCCT 120
 GGAAGATTCC TTCTTTNCCC TTTTGTCTTG CCCACTACTG TTTACCTTC AAGTTTCAAG 180

2153480

GTCAATGTCAC TGTCTNAGAG AGGTTTTCCT GTGNTNGACC TGTTTTTNAT CAGGAAGGCT 240
TGCTNNTTTC CATNAN 256

SEQ ID NO:6246

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07407

SEQUENCE DESCRIPTION:

GATCATTAAA CCTGGCTTGA GTCTCTGTTT TGGCAAA 37

SEQ ID NO:6247

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07408

SEQUENCE DESCRIPTION:

GATCAAGNTT GNTCTTCTGT GATATATGGG ATATNATGTT TTAAAGACCA TCTTGAATA 60
CAATTAGAGA ACTTAGTATT TTGATGTAAT AAGACCTATT TTAAGTTTAA TATTCTACTT 120
TGCAAAANCT TTAATTAANG ATGTTATTTA AA 152

SEQ ID NO:6248

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07409

SEQUENCE DESCRIPTION:

GATCCTGCAT TAAGAAATTC AAAAATCAGT TAATCATCGT TACATGTTGT AAAAGTTGGA 60
TACTGACAGT CTCTAATAGT TTATCATCCA ATNGCANGTA ACCTACAATT TTAGGCATAA 120
ACGTTGATGT GTATAANCAAT GNATACAACG CTANTGGCTG GTCACAGTGT TTTCNCAAAC 180
TACAGNTCAC ACCANGTNTT TCTCCTNTTC CTN 213

SEQ ID NO:6249

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07410

SEQUENCE DESCRIPTION:

GATCTCCTCT TAAGCGGAAA AGAGATTGAC CTTCTAGCAG AGGCAAAGAA TGGAGTCTTC 60
TGGGGGCAGC TGCAAAGCGT TCTCCCTAGG ACAGATGGAG CCTCCCTTTC CTCATCTACT 120
CTGTGGGTGG TTTCAGGGCC CACGAGTCAA CATNAGGAGT TGTGCTGGTG GTATGTGTGT 180
TGGAGGCTGG GCTGGCTGAT TCACAGTGAC GAGGATGTCA CTAATANCAN GTATTGCGAN 240
TGNTGATACC TAATAANAGN CTTTTTTTCC CAAA 274

SEQ ID NO:6250

01824

2153480

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07411

SEQUENCE DESCRIPTION:

GATCACCATG CTTGAATGTC CTCTACTGCT GATTCTAACA TCCGTGTCAG TTTTGGACCG 60
GTTTCAGTAG ATGGATTTTN CTCNNNGNA TGGGCCATAC TTTCTGCAT TCTTTGCATG 120
CCTCATAATC TTTGATTGGA TGCCAGACAT TGTAAATTTT ACCTTGTTGG GTATTGGATA 180
TTTTTGTATT CCTATAAATA TNCTTGNGCT TTGAAA 216

SEQ ID NO:6251

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07412

SEQUENCE DESCRIPTION:

GATCTAATTT TGTATGTGGG AATCTTGCCT TGCCCTGATT TCCAGACCCA TAGGCAGGCT 60
TGCAGGCTGT AGCTGGGGAA GACCCACGC TTATNCTGGT GCCCTGAGCA AGCCCTCCTG 120
CTCCACTATT AGGCAGAAGC ACCTGTTCTG CCACAGGAGG CGCTGTCTTT TGCTGGCAGA 180
GCTCAGTTTC CCTTAAGGGG AAGTTCCTTA GGATTTAAGG CCTCATGACT ATCTCAAAAC 240
CCATGTTTGT TTGCCAATAA AGNAAATAAA TAACTGTAA AAAANNAANN AACNACCANN 300
NAAAAACAC NAACANCAN 319

SEQ ID NO:6252

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07413

SEQUENCE DESCRIPTION:

GATCTACTGT TTGCATGTAA GAGACCAGGN TATGTAATC TTATATTTTA AGTGTATACA 60
TATTGTGTAT ATAACATATG GATATTAAAA ATGGGGANTT GCACATTAA A 111

SEQ ID NO:6253

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07414

SEQUENCE DESCRIPTION:

GATCCCAGGA ACTGTGGGCA CCCATTTTNT GTGTCTCCCA GCCNATTTCC ACTCCTAGTT 60
TGTCATGGNT ANTTTTTGT CTTCCCTGTG TGAGGGGNGC CATCAACN 108

SEQ ID NO:6254

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

01825

2153480

CLONE:HUMGS07415

SEQUENCE DESCRIPTION:

GATCACAACC ATCAGCATCA CGGCCACAGC AGCCAGTGT GGGGCTGCTG GCATCCCCCA 60
GGCGGGTCTG GTCACCATGG TCATTGTGCT TACGTCGGTC GGCTTGCCCA CGGAAGACAT 120
CACGCTCATC ATTGCCGTGG ACTGGTTCCT TGACCGGCTT CGCACAATGA CCAACGTACT 180
GGGGGACTCA ATTGGNGCGG CCGTCATNGA GCACTTGTCT CAGCGGGNGT GGAAGCTTCA 240
GGAAGCTGAG CTTACCCTAC ACAGNCTGGG GAAACCCNTA CAAGTCCCTT AATGGNACAG 300
GACGCAGGGG AGCATAN 317

SEQ ID NO:6255

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07416

SEQUENCE DESCRIPTION:

GATCGAGACC ATCCTGGCTA ACACGGTGCT GCGGGAGATA ACACTCCCTT GAAGCAGTGG 60
AGTACAATCA AACATCTTGG CTGCTCCTGA AACCNGGTCC CACGNATTTC AGTCCGGCTA 120
AGANCGAAGA GCTGGTAAAC CANTAANTTG GGTGGAGGCC GAGAGCTCGG GGCCGCGAGC 180
AAGCCTCCGA CGANNTGGTC CCCTGGACCN NCNGGTTN 218

SEQ ID NO:6256

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07417

SEQUENCE DESCRIPTION:

GATCTNACTC ACAGAGGGAA GAACTTATAA TTCTTCACAG GTCACATAGA AGCATGANAA 60
TTTGGGTTCA AGCAAGTAAA TTCTAAATCA GAATCCATAC ATAAAGTGTT TGCAATGTCC 120
AGTTATATCT CCATGATATT TNCTTTGTGG AAGTTGATTG TCCTTCCTTA CAATAAATTG 180
CTTGANTTGT CAAA 194

SEQ ID NO:6257

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07418

SEQUENCE DESCRIPTION:

GATCCTGTGT ATTTCCCTGA GTCTTCTAAC ATATGAAAAT TCATATCTAA ATCAACAAGT 60
GACTGTAATC TGGTACTATA AATACTAAAT AAACACTTCT TCATAACACT GTACCAATTC 120
AGCTTTTAAA TTNATTACT TTGCTTTCCT GTCCTTTGCC AACTCTTAAC CTAGTTAATC 180
CTAGTNCTGT TGACATTGGA CCAGGCTCAG TAAATAANCG AATGGATTTT CAGCCTTTTT 240
TTCCCATCTG TNCCTGCTTT TANGTCCTCT GAATCTGCTT CTTTGCTTNC TGCTGCTTTA 300
ATTTTANCAG TGNTTTTNGT CAAAACATAG GNTNCAGGGN CTNNN 345

SEQ ID NO:6258

01826

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07419

SEQUENCE DESCRIPTION:

GATCTGGGTT CTAGAGGGCA TGTGATGACT GTAAATGTTC ACTGGGTGGG TAGGGAGTGG 60
TATCCAGTGT TCAAGTGCAG AAATCTTTGG CTTNGCTACC AGTTCCATAT GATGAGAAAT 120
AAACGTTTCG TGAGGTTTTG TTTCATAAAA AGANNNNNAA AANNTCN 167

SEQ ID NO:6259

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07420

SEQUENCE DESCRIPTION:

GATCCACACT TTAAAGAAA TTCCATAAAT GTATATTTTG TATTATGTAT TATTCCTGG 60
TCCNAAGAAA ATATGTGAAT TCAGTTCTAA CTTNNGGANT GTACTGTTG TTTTCANGTT 120
CATTGNAAN 130

SEQ ID NO:6260

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07421

SEQUENCE DESCRIPTION:

GATCCGAGAT GGCACCATG TACTCCAGCC TGGGCAACAA GAGCGAACT CCGTCTCCAG 60
ACAAACAAAC AAANCAANAA CAAGTGTCCT TATNNGNATG GGTGTGTTN 110

SEQ ID NO:6261

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07422

SEQUENCE DESCRIPTION:

GATCTGGCTG TCTAGAGGGA TTCTACGACT GCGTGCTGCC GCCTCCCCAA GAGGCATTCA 60
GGTTATTGGA GAACTAATCT CATCTCAAGG GGCCAGNCAC CAAGTCCCAA AGCCTACAGA 120
CCTCTTTCCG CCAGGCCCTG AAACCTGGCC CCGTGCCAGC AGGATGACAA GCCCCAGGGC 180
GNTCCTGATG AATATGGCTT GGAGATGNTG TACAANTTTT TATTNCCCTN TGGNTTTTGA 240
GGNATGAAAT GATTGCACT TTTGAAAACC TGTTAACCGT AGGCCNCTN GGNCANTGAN 300
GNNTGGAAGN 310

SEQ ID NO:6262

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

2153480

CLONE:HUMGS07423

SEQUENCE DESCRIPTION:

GATCCACTCG GNCAACCCAA CAGTTTACC AACCAACCCG GGCTCGGAAC TAATAGGNAA 60
AGTAGACTCT TTGTGAAGAA ACGAGCCANT NNCTGGAACA CCCTGGTGGA AACCTGTTGA 120
CANGCCCTN 129

SEQ ID NO:6263

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07424

SEQUENCE DESCRIPTION:

GATCACTTGA ATGTTAGGNT TCATAGNACT ATACTAATCT TCTCACAAAA GGTCTATAAA 60
ATACAGTCGT TGAACAAAAAT TTTGTATCAA ANTGGGGNGG CAAATTNGAA GCTTCTCCTT 120
AANCTGTATT GATACTGACT TGAATTCTTT TCTANAN 157

SEQ ID NO:6264

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07425

SEQUENCE DESCRIPTION:

GATCTCCTTC TTTAGCTCAA GGTGCTGCA ANTTGGAGCT GAGCTGTCAG TGGAACGNGT 60
CCTGGAATN ATTAAGCAAG GCGTCGTTGC GCTGCCCAAN GACAGACTGA AGAAATTTCC 120
AGANTTGAAA TTCAAATATG TGGAAGNGGA GCAGCCCGNG GNGTTTTTAT N 171

SEQ ID NO:6265

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07426

SEQUENCE DESCRIPTION:

GATCCTACAT TTACAGACAG TTTTGTGATA ACCCTTTGCA TTGCAGCACC TAGTACAATT 60
CCTTGGAAC AGCGTGGCTC AATAAATTTT TATTGAATGA ATAAATGTGG GCCCAGAAGC 120
GTGCTAGANG AGTGCCTTTC TGGGCTACTN AAAAAANNA AANACNAAN AANN 174

SEQ ID NO:6266

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07427

SEQUENCE DESCRIPTION:

GATCAAAGAC TCCCTGGAGC GAGAAAACAG TTAAGCCAG AAGCAGAATG GAAGAGCCAA 60
AAAGTACACA AAATGGACGC CATAANTTCT GAAATAAAAG TGTATGATGT GTTCTGAGTC 120
AAA 123

01828

SEQ ID NO:6267

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07429

SEQUENCE DESCRIPTION:

GATCTGGGCC TCAAATACC ATAGTAGCTG CTTGATAAAA TTCTAAAAAT ATCTGGTTCT 60
CTATTATGTA AACACTATTA CAGTCACCAG TGTGTGAAGA CTCTTGAGTC TGGTTTCAT 120
ATCAGAGTCA TCATTTTCT TCCNGTGGAA TAAANTGCCT TGTGGNCTTC CAAA 174

SEQ ID NO:6268

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07430

SEQUENCE DESCRIPTION:

GATCTTTTCA CTGGCTGACT CTCCCATATC TGCAAGAGAT TCTGCAGGAA CTGGGTGTGC 60
ACACGGTGTT GTAGCCAGTT CAGGTACTGN ATATTTAGGA TTTGGTGNCG TTCACTGTAT 120
TGCTATATTT TTGTAGCTAA ATAAANTCA ATAANTTGT AAA 163

SEQ ID NO:6269

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07431

SEQUENCE DESCRIPTION:

GATCTCCAGT ACTTTGTACA ATGTATAGTA TATTAAATAC ATTTATGTGT AATTTTGTGT 60
GTATTTNTAT ATGGTATAAT TAAATNATT ACATTTATGT GATTGTAATT CACAAAANGT 120
ACTACTTACT ATATNCTGTA GNGTGTGTTG TGAATGTNTT TACCNGTGTT TGAGCATTAT 180
GGNGTAGGGN TN 192

SEQ ID NO:6270

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07432

SEQUENCE DESCRIPTION:

GATCTTCTTT TGTAATGTTT TTCATGTTAC TGCCTAGGGC GGTGCTGAGC ACACAGCAAG 60
TTTAATAAAC TTGACTGAAT TCAAA 85

SEQ ID NO:6271

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07433

SEQUENCE DESCRIPTION:

GATCCTAGTG AGGGATTGAT GAATGTTCTA AAGAAAATTT ATGAAGATGG AGACGATGAT 60
 ATGAAGCGAA CCATTAATAA AGCCTGGGTG GAATCAAGAG AGAAGCAAGC CAAAGGAGAC 120
 ACGGAATTTT GAGACTTTAA AGTCGTTTTG GGAAGTGTGA TGTGATGTGG AAATACTGAT 180
 GTTCCAGTA AGGGAATATT GGTGAGCTGC ATATATAAAT TTGACAGATA GCTATTTACA 240
 TAGCCTTCTA AGTAAAGGCA ATGAATTCTC CATTCCTAC TGGN 284

SEQ ID NO:6272

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07434

SEQUENCE DESCRIPTION:

GATCAGTATT AACATCCAGG TTTTGATTGT TGTANTATGG TTACCTGGTA GATTACCTTT 60
 GTATATAGGN AATAGACACT GGAATAGTAA GGNGTAGTGG GTCAAGATGT CTGCAACTTA 120
 TTGTTGAGAA TCACTCAGAA NTGGGNAATC TGATATAAGG NCAAAANTGGG AGCACTGTGG 180
 CCTNTTTTNN CAACTTTTGT GTACATCTGN N 211

SEQ ID NO:6273

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07435

SEQUENCE DESCRIPTION:

GATCTCATGA AGTCTTCCTT GGCCCAACCA GGCAGATGCC CCGGGCTCCA GTGGGGGGGAG 60
 GGGTCTGGGG TCTGGTCCGG GTTCCCNAAAT TTCTCTTNN CCCANATCNC TATTTCTACG 120
 CAGTGCGNAT AAAATTTGGA NTCGACTAAA ACCCTTGGTG CCCNGAAAAAN 170

SEQ ID NO:6274

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07436

SEQUENCE DESCRIPTION:

GATCTGCCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG ACGTGTGCCA CTGNGCTCGG 60
 CCTCAGATTC CATATTTNAA CACCAGCTGA TTGAGAGAAG GGGAAATNAGA AGAGCTGGAT 120
 GAGTTTAAAT AACTTTNATT GTTCAGATTC CTGAACAGGN GTTGGGATAA TGGCCATCTT 180
 TNCTTTCCTA TCCTTCCCCC CCTCACTGTG AAAAAATAACA GTCCACCCCA AGTCATACAC 240
 TGGACCCAGT GCCTGCGGGG ACAGGNCCTGT GGGTTTCTTG GTCACACCTG TGTTGGTGNT 300
 N 301

SEQ ID NO:6275

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07437

SEQUENCE DESCRIPTION:

GATCCAAAA ACCATTCNGG CCAAGNAACC CTGAAANGNA ACATCTACCT CCCGACCTAC 60
 CACCCCACTG GCTGGTTCCA GAACGTCTCT NACCTAGACC TTGCCTCCCC TCCTCTCCTG 120
 CCCAGNTCTG ACCCTGATGC TTAATAAACG NAGCGACGTG AGGGTCCTGA TTCTCCCTGG 180
 TTTTNGGGGG GNTCCATN 198

SEQ ID NO:6276

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07438

SEQUENCE DESCRIPTION:

GATCTCTACT CAAAGATGTC TTGCAGTTTA TGAAGTGA TGTAAGTCA TGACTAACAT 60
 GATGACATCG TTATTAATA CATAAACTTT ATAAAGCTTA AA 102

SEQ ID NO:6277

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07439

SEQUENCE DESCRIPTION:

GATCTTAATA CCTAATTTCA TCATTTCTGA AAATGTACTG TTTTAGAATG TATTACAATA 60
 TCAATGTGAA TATCTTGAAT CCTGTTACAA ATCCTGCACT GTATTAAACA TGTAATTA 120
 TTGTTGTCT GATTAGCCAA TCTCACCACC CAAATGGGGA GGTATACATG TTTGANGAAC 180
 TGTGTAATC AGTAATTGAT TTGTNCTGAT GTTGTAATC ANTAGANGTG TTTTGGGAAG 240
 NAGCATGGTG TGTGAGGCAG TGTCTGTCCT TTGTGCCAG CTCTGTATGN TGTTTGTNGG 300
 CCNTGTTTGT AGGCCTGN 318

SEQ ID NO:6278

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07440

SEQUENCE DESCRIPTION:

GATCTCGCCA ACAGCTAGCT GCTTAGGAGT ACCCCCACGA TACGCACAGC ACACCACTGT 60
 CCCTTCACTG CACTTTCTTC CTGCCTTAGG TAGTTGGGCT TGCCCACCCT AGTTTGCTTT 120
 TGTAAGTGGT TGGCAAGGT AGAAGGCCTC GGCCTCTCTG TNATGCTGGG AAGTGCCTAC 180
 TCTCTGGGCC ACTGCTGCAG AGGCCGTGGC ACTTGTNATG GGTGGGAAG ACCCAGCCAT 240
 CTGCAGCAGA GGCAGCCTAT TCCCATTGCA AGGNGNGGAN TGAACGGAGT AATTATTCTA 300
 CTNTTCTTTT TACATAAATA N 321

SEQ ID NO:6279

LENGTH:290

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07441

SEQUENCE DESCRIPTION:

```
GATCCTGCAC GTCCGCAAGC CGGAGAAATA CCAGCTGCAC CTCCACGAGA GCTGCGTGCT 60
GTCCCTGAAG TTTGCCTCCT GCGGACGGTG GTTTGTAAGC ACCGGGAAGG ACAACCTGCT 120
CAACGCCTGG AGGACGCCGT ACGGGGCCAG CATTTCCAG TCCAAGGAGT CGTCCTCAGT 180
CCTGAGTTGT GACATCTNCA GAAATAACAA ATACATTGTN ACAGGCTNGG GGGCCAAGNA 240
GGGACCCGTG TATGNGTNG TNTNCTTNGG CCATTNNCCC NTCCTGTNN 290
```

SEQ ID NO:6280

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07442

SEQUENCE DESCRIPTION:

```
GATCCAGTCT NTGGTATCAT GCTAGTNCTG ACAGGGCCTT GATAGTCTAG AGTTGGAAAA 60
GATGGTAAGC TTTTGTNAGN GTTTAACAT TTNCTTGATG AAACAATAAA AAGAGGTAAG 120
CTTTTNCCTN 130
```

SEQ ID NO:6281

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07443

SEQUENCE DESCRIPTION:

```
GATCCAGTTT TGTTGGGAC CAAAAACCAG TATTGTACAA AGTATTAAGC ATATATTTN 60
ATATTTACTA AAATNGACTG TGGTGACTTT GGATAATAAG NAAAANTTTA ATATTAAANC 120
CATGTTTATT ACAGTATAAT TAACATGTTA AACCATGGGG NTAAATGCCA TCANTAAAAA 180
ATTATGNCAT NN 192
```

SEQ ID NO:6282

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07444

SEQUENCE DESCRIPTION:

```
GATCCACCCC CTGCCGCAA AACATTGCTC CTAACCCAC CGNCTGTCCC AAAACCTATG 60
NGANCTAATG ATAATCCCAC CACACTTTAC TGACTNTNTT TCCAGACTCA GCCCGGCTGN 120
ACCAN 125
```

SEQ ID NO:6283

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

01832

CLONE:HUMGS07445

SEQUENCE DESCRIPTION:

GATCTGAGTT GCAGCTCTGC ACCCTAAATC ACACCCTGGG CATTGTCTGG GCTGCAGGGC 60
 TGCCAGGTTC TGTACTTGTG TCCAGCTATG GCCCTGGNTG CTGGAGCTGG AGGGTTTTCT 120
 GTGCTCAGAC TGTAAGCTGT AGCTCTTGGC CTGTGTAGAG CCCCCTCCTG TGCCCTCAGT 180
 GGCTGTCGTT TGTTAACATN ATCAGGAAGA TGGGAAAGGT CAGGCAGNAT TTTCTGNCC 240
 TACAAAGGGN GGNNGAGAAA GGACACAGTA TTTNAATGA NTTTACCATA TATCTTTGGN 300
 N 301

SEQ ID NO:6284

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07446

SEQUENCE DESCRIPTION:

GATCCTTGNT TTCTAAAAGC CAGTCCTNCC CTNCAGCTTT CCACAGTTTC TGTAAATGTT 60
 TAATACTTNT ACAGTCAATG GCAATTTTAA ATATATATAT ATAANATN 108

SEQ ID NO:6285

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07447

SEQUENCE DESCRIPTION:

GATCTGGGGG AAAGGCTGCC AGGGCCAAGA GGCTCGTCTC ACTCCCTGCC CTGCCATTTC 60
 CCGGAGTGGG AAGACCTGA GCAAGCAGCA CTGCCTTCCT GAGCCCCNGT TTTCTCATCT 120
 GTAAAGTGGG GGTAATAAAC AGTGATATAG GNGTGCAAA 159

SEQ ID NO:6286

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07448

SEQUENCE DESCRIPTION:

GATCACTTGA CTCTTGTAAG CGGACCTATA CTCAAAAGGC TTTGGCACAC TGTCACGNTA 60
 TTAGTATACA AATGTGCATT TGTGTTAAG TTAAANTGAG GTNTGCNGGG TAAACTGCNA 120
 ANTAN 125

SEQ ID NO:6287

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07449

SEQUENCE DESCRIPTION:

GATCTACAGT AATTTATTCT NTCTAAAAGT AAAGCATTTT CAAAACCTCAG TATTTAAACC 60

AAA

63

SEQ ID NO:6288

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07450

SEQUENCE DESCRIPTION:

GATCTTTTCC ACTGGNCTAC TACCTGACCA TAAACATGTC TGCATTGAA TTCTCTAAAC 60
 CCTAAATCTG TGTCTATGAA AAATACAAAT GACTATTAAA TAAA 104

SEQ ID NO:6289

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07451

SEQUENCE DESCRIPTION:

GATCTACCCA CCTCGGCCTC CCAATGTGCT AGGNTTACAG GCATGAGCCA TGGCGNCCGG 60
 NCAAGTTTCT ATTCTAAAA TAAAGAGGTT ATACATCTAA NTTACAANTC GTGGCCAAAA 120
 NGN 123

SEQ ID NO:6290

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07452

SEQUENCE DESCRIPTION:

GATCTGCCCC NCTCAACCTC CCAAAGTGCT GGGATTATAG GCGTGAGCAC CGCCCCCAGN 60
 TGATTCAGG CGAATTCTTG TCTGATGGG GGGCGAGGGT GTGTTCGTGT GATGGGTTGG 120
 NGTGTGTGTG TCTNNGTACA CAGATGATGT GTTTCCCTT CAGCTTCTTA CGTTTCTGA 180
 GCATCCGTTG TGCCTTAACA TTTTCTGNTT GTCCTTTGGG NCAAGCAGT ATTTACTNA 240
 TNCTTTGAAT GTTCTCATT CATTNTATCA TGTGACTTAT TAAAANNAGN TTNTAN 296

SEQ ID NO:6291

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07453

SEQUENCE DESCRIPTION:

GATCTGATGG ATTAATAAGG GGTNTCCCN ATTGCTTGGC TCTCATTCTC TCTTGTCTGC 60
 TGCCATGTAA GATGTGCCTT TTGCCTTCCA CCATGATTGT NAGGCCTCCC AGCCACATGG 120
 AACTGTGAGN TCATTAAACC TCITTTTCTT CATAAATTAC CCAGTCTCGG GTATGTCTTT 180
 ATCAGCAGTG TGCAAGNNGG GGNGNTACAC CACTNCTCTA ACTANNTN 228

SEQ ID NO:6292

2153480

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07454

SEQUENCE DESCRIPTION:

GATCCTGTGG TCAGAGGCCT CTTTGGCAGT GTNTTCTTAC CCTTAAGNAA GGTCATGAAA 60
TCCAGAAGGG GCAACCTTTN CAGGAGAGCT TTGGAGTCAT TTCTGTGTGA GNCACTATTG 120
CATAATCCTG NCAGNTTGCT TTTATATTTA AGGANTGATG TTACTIONCA ACTGAN 176

SEQ ID NO:6293

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07455

SEQUENCE DESCRIPTION:

GATCTGACTG CTGGCTATAG GATTTTGGAC TTAATGACTG AAATTGCAAA TTGTCCTTTT 60
TCTTGGCATT ACAGATTTTG CCAAAATAAC TTTTGTATC AAATATTGAT GTGTGAAAGT 120
GAAGGAGCTA GTCTGCTGAA CCAGGAATAG TTTGAGATAT TGAAGTCA TTTTGNACA 180
TTTGAATACT TTGCAGGCTG GCTTTGTATA AACTTATCCT CNGGNNNCCT ATATGTTGTA 240
AATATNTAGN CCATAATTCC ATTATAANTA AANCCTATAA ACTATTCAAA CNAANANCAA 300
ANAACANANN 310

SEQ ID NO:6294

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07456

SEQUENCE DESCRIPTION:

GATCCCAAAA AGTTTCCTTC TGCCCTTTTT CAATNCCTCC TTCCCGCCCN TCTGCTTTTG 60
TCATTATATA TTACTIONTGA TTTCCTAGAA TTTCATATAA ATGGAATCAT ANAGTATCTA 120
CTCTTTGTTG TTGCTGGCT TCTNTCACTC AGCATAATTA TTTTGAAACT TATCTATGCT 180
GNTGTGGGTA TCAGTAGCTC ATTANCCNAT TGTTGCTGAG TAGTNTTTNA TTGTATGANN 240
GTGCTACACG TTATNCGN 258

SEQ ID NO:6295

LENGTH:31

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07457

SEQUENCE DESCRIPTION:

GATCTTAATA AATAATACCT TACTGCTTAA A 31

SEQ ID NO:6296

LENGTH:38

TYPE:nucleic acid

01835

TOPOLOGY:linear

CLONE:HUMGS07458

SEQUENCE DESCRIPTION:

GATCTATGTA CAATTTAAT AAAATCCTGT CCATGAAA

38

SEQ ID NO:6297

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07459

SEQUENCE DESCRIPTION:

GATCACCTAC TAAGANGTAC TTCCTACNTT TCATTCTTTC TTTATAAGAA TTAATTAANT 60

TTTAATTGAC AAA

73

SEQ ID NO:6298

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07460

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCTTC CCAAAGTGCT GGGATNACAG GCATGAGCCA CCGCACCCGG 60

CCCTATCTCA AGCTTCTTAA CTGCACCTGC TAAATCCCTT TTGCCATGTA AGGTAACGTA 120

CCAACGGTTT CAGAGNTTAG GNTGTGNCA TTTTGGGGGG CTGTTTTTCT GACTGCAATA 180

CCTGGTNTCC AGTGAATCCA TGTTAGTGG AGGACAACAT TTGAGGCACT TACATGGATN 240

CTAGGGGACA TNTATGTGAN TGTTAGGCAN AAAGTGCTGC CTNCANGNCA NGCAAATACC 300

NATTNAATAT N

311

SEQ ID NO:6299

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07461

SEQUENCE DESCRIPTION:

GATCAAAAAA TAACTATAAG TATCCTCAGC CAAGTAGCCC ATGCCGCTGC TCTGCCTACG 60

GNGTACTCAT CTTTATTCT TTACTTTCTT AATAAACTTG CTTTCAATGT ACAA 115

SEQ ID NO:6300

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07462

SEQUENCE DESCRIPTION:

GATCCTACTG CCTCGTCTC TCAGAGTGCT GGGATTACAG NNGTGAGCCA CCACAGNAAG 60

NCACAAATAG CGATTTTATC TACTACCACC AGAAATCTTC TGACATACTG TTTTACCGCA 120

TGAACTATTG TTTTCTTTAT AAATTCCTTA ACAAATCTCT GTTGATAGA ATACTGTTGG 180

2153480

TTAAAATATA TCAGCAGCTA ATAGCTCATT TTAAATAGAT TCTGAAAGTT CAAGNATTTC 240
AGGTTGCCAG NCACCNNTAT ACTCTACANA ATCAGANANG GCTCATTCTT GNTNCTNAC 300
ACAACAAANN 310

SEQ ID NO:6301

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07463

SEQUENCE DESCRIPTION:

GATCAGGGAT GTCCAATCTT TTGGCTTCCC TGAGCCACAT TGGAAGAAGA ATTGTCTTGG 60
GCCGCACATA AAATATGCTA AACTGACGA TAGCTGATGA GCTTAAAAA AAAAAANTG 120
CANGAAAAAT CTCATGTTTT ANGAAGGTTT NCAGNTTGT GTTGGGCTGC ATTTAANGCT 180
GTNCTGGGCT GCNTTGGNCC CGNGGGCTN 209

SEQ ID NO:6302

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07464

SEQUENCE DESCRIPTION:

GATCATAGCT CCTGGTAACT GTGGACTTGA TAGATTTNAG GTACCTAGTT CAGAACTCCC 60
TAGTCACCAT CTCCAAGCCT GTCAACATCA CTGCATATTG GAGGAGATGA CAGTGGTAGG 120
ACCCAAGGAA GAGATGTGTG NCTGANTAGT CGTCACCATA TCTCCAAGCT TCCNGGCAAC 180
CAGTGGGAAA AGAAACATGC GAGNCTGTAG GAAGNGGGAA GCTCTTCCTT GGCANCTAGG 240
AGGNNTTAGC CATTCTCTTC CTTATGCAAN GATTGAGGAN TGCAACAATA TAAAGNACGT 300
GNAGTCCCNA NN 312

SEQ ID NO:6303

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07465

SEQUENCE DESCRIPTION:

GATCCGCCCG CCTCAGCCTC CCAAAGTGTT GGGATTACAG GCGTGAGCAC CGCGCCTGAA 60
NCTGAAGGTT ACTTTTCTTT TCAGTGGTTT GGGGCAGGGT GTTACACAGC TTAATAGATT 120
AAGAAGAATA AAATGCTGAA TGCTAAA 147

SEQ ID NO:6304

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07466

SEQUENCE DESCRIPTION:

GATCATATTT CCTCAAAAAT AAGAGAAATA AGGTTTCATAA GGAAACTTGC TGGGATTGTG 60

01837

2153480

GTTGTTTTGT TTTCTCAGCA GCACAAACAA AACCAGAATT TAGCCTTTAG GACTGCTGAG 120
TAAGCCAAAT TTAATGACT ACTGCTTTGT NCATGGGTAA GCCATGTNCT TTTCAAAATA 180
AGTGCCACTA AAANCCACAT AATGCTTTGG TTTCTATGTG GCTAATANNT ATTNNGTCCT 240
ATAGTTTATC TTATTTGTNA CTGATTTCN TCTCTGNAT GCCTCATATT ANT 294

SEQ ID NO:6305

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07467

SEQUENCE DESCRIPTION:

GATCCATTCG CCCCAAGGGG ACAACGGGGT GTCAGGGGAG TNAGGGGTGG AGGTAGGGGC 60
CAAAGAGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNACTTCT 120
CTNATGAGAT TATTGTCAAC CCTGCTTTCC CTGGTAGATA TTTGCCAGGC CCAATGCTTT 180
AACCTTAAGC TGATATTTTN CCTTTAGATG TCAATCTCGT TACCAGCAGC CTTTGGACCC 240
AACTNCAGNG NTCTATATTT NCGTAGNGGN TTTTCNCCA TGTGCATGGA TNT 294

SEQ ID NO:6306

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07468

SEQUENCE DESCRIPTION:

GATCCCAGAG GCTGAGGGTT GGGGAGAGGA AGCCATCATC TCATTACCTC TGTCAGTGCA 60
GGGGTGGCTN CTNCTTCCT TGTGCACTG GGTGCTGTG ATTGTAAATA AACGTGATTT 120
CGTACCAAA 129

SEQ ID NO:6307

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07469

SEQUENCE DESCRIPTION:

GATCTCTTTG TNATTTAAGA AGTGGCTGGA TTGGAACCTT TAATATGCTA ATNTGGAAAA 60
TTAATTACCT TTATGAAGGT GGTATTAC AAATAAGCAC ACTAACCCT CGGAAGTTGT 120
TTTACCTACT TTAAGTTT TANTGGATTG CNCCTCTGTA ANCTATTCCT AANNTGTGTA 180
TGANATATTT NAN 193

SEQ ID NO:6308

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07470

SEQUENCE DESCRIPTION:

GATCTTTCTT CCTCTCCAGC CCACAAGTGG CTCTAGTGAG ACGAGCATTT AAGCTGCAGG 60

01838

TGGTGGCACT CGGGTCTCAG AGCCACCAGA CGTGCAGGTG GGACAGTGGT TCCAGCTCCG 120
 GCTGCCTGTN AGCGTCCCTC CCAGGTGCTA GCCCTGGCAG GCACAGCCCT NCCCTCATGC 180
 CAGCAAAGGA AATGCTCTTG ATGAGAGGCT CGCTTTAAAG AAGCCCAAAG CGTGTGCTTA 240
 TCCAAGGGGT TCAGCTATTC CTGACTTCAC GGCTTGCATG TTTGATTTTG N 291

SEQ ID NO:6309

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07471

SEQUENCE DESCRIPTION:

GATCATATGT ATTTNTATGT TCTGTAAAGN ATTTGACTTA CTAGTTCTCA ATAAAATTTT 60
 ATTAGGACTA TAAAAAATAA AAAAAANTTT TAATAAA 97

SEQ ID NO:6310

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07472

SEQUENCE DESCRIPTION:

GATCTTATGT ACATACCCAT TTTAGCTTTC CCATGCATAC TTAAGTGCAC TTGCTTTATC 60
 TCCTTGGGCA TTCTTACTTA GGATTCAATA GAAACATGTA CAGGGTAAAC AATTTTTTAA 120
 AAATAAACT TCATGGAGTA TCTGAAA 147

SEQ ID NO:6311

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07473

SEQUENCE DESCRIPTION:

GATCACATTT TGAAATGCCCT AAAAGACTTT ATTGTTCTAA TTATCCAGAT GTACCTTTGT 60
 AAAATAGCTC TTTTATGAAT TAGCTGATAA GGCTGTATGT TTCTGGANCA AATATTGGGN 120
 CACCTAAAC CTTCCGGTTT CCGGGGGCCN GGGAAATNGG AAATNAGGTT TCNAATNTTA 180
 AATNAGGNTN 190

SEQ ID NO:6312

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07474

SEQUENCE DESCRIPTION:

GATCTGGATT TTTGCCAATT CCTATGAAAA ATAATCCCCA GAAATAAACT ACTAAGGAAA 60
 ATAAA 65

SEQ ID NO:6313

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07475

SEQUENCE DESCRIPTION:

GATCCATTGG TGTTTGTTTT GGGGTGTTTT TTAAGTTTT TCTTTTATAT CATCCAGAAA 60
TAAAGACACG TAACTAAA 79

SEQ ID NO:6314

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07476

SEQUENCE DESCRIPTION:

GATCCAATAA CCCAGTTAGG TATTATAGAT TAGTATTTAA GTTGCTGTA GATTGTGTGT 60
GTGTGTGCTA AGTAAAGTN CCATGATTCA CAATTTTAGT ATTAACCCAT GTTGCAAAAG 120
CTGTTACTGG CCAACAGATT GTNATGATGT GTACCATATA ACACAAGCNT TANCTNGGCA 180
TTANCGTTG TNAAGCCANN TNTN 204

SEQ ID NO:6315

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07477

SEQUENCE DESCRIPTION:

GATCTCATCT CTGAAAATAA AATACCCCGT TAAAATTCGT GCTTTTGTTT GTTAAGGTTA 60
TTGAGAAGGT AATAGAAAAA GATATGATAC TACTTTNCTC TCTTGGATTT GTAAAANTAG 120
TGGAATTTTC ATAAGGATTT TGTATTTTCT ATTGCTGTAT AACATTATTA ATACAACTT 180
ATTGGCTTAA NANNCAAANN NNNN 204

SEQ ID NO:6316

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07478

SEQUENCE DESCRIPTION:

GATCACGAAG ATACATGTGT TTGACTGTTT AATTTGAAAG TTTACATTTT TNATGCTTTG 60
TGTTGGTGTG TAATTTTGT ACTCTTGGTG GCTAGTTTTT GTCAAATCTT TTTTGAATA 120
TTGCTTAAAT GTNTTGATTT TATGATAGTG AAGCTTGTAT TCAGTGTTTT GCCAATNAAT 180
ATTATATGCT TGTAATAANN GCAAAAGANA AGCTTAAA 218

SEQ ID NO:6317

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

2153480

CLONE:HUMGS07479

SEQUENCE DESCRIPTION:

GATCCCAGTG GGAACCTTCA TGCCTTATTN ATTTCTAATG GGTAAAGGGG TTTTNTTACC 60
AAGCATCCCT GACCTCCTGG AGACACCACC TGCTTTCCGG GCGGCACTGT GATGGGAGCT 120
GGTGGCGACT GAGTCCTTCT GTACGTGCAA CTGGGAAACT TTTGTCCTTT GAGGCTAGGC 180
AGCTCCCTGC CCTCCGTGTG TGTCTGTTAT CTGGGGGAGA GGAGTGTGGG AAGGNNTTGG 240
GGGAAGAGCT CCAGCCTGTN TTGNTCCCAA AGTTCTNNAG TGGGAAGACC NGGGTNACCT 300
TTTNAGGGTN TANGGTGNGG GGAANTTNTT TTTTN 335

SEQ ID NO:6318

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07480

SEQUENCE DESCRIPTION:

GATCTGCGTG TCAAAGTGT CCATTTGTTT ATGTAAAGTG ATATTAAAA AGATATAAAC 60
TATAACTGTC CGTACTTTT GGCAAAAGAT ACAACCACAT AATGTATATA ATTCCTAGTT 120
TCCATATTTA TCCGCATGTA AAGGGCCGGT TTATCCATGT TACAGCTCTT CAATATTTAT 180
GGCTAGAAGA NCTCGTATGT ACACTTTAGT TTCCAGAACT GTTTGGTAAC CTTTCGTACC 240
TNATTAGAGG ATTCTNAAAT CTCAAA 266

SEQ ID NO:6319

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07481

SEQUENCE DESCRIPTION:

GATCCACCCA NCTCGGCTTC CCAAAGTNCT GGGATTATAG GCGTGAGGCA CCGTGCCTTG 60
CCGATAATG GATTTNAAAG TGAGTCTTTG AGGGAAGAGT AGGACCTGCA CTGAAACAAA 120
AAGACAATTT GTGGGGTTGG GGNGAGGAAC CAGATGTAAA CAATGGAAAG NTTTGGTGT 180
CACTTTGAGN NGGATTTTTT GGAAGGGTTT TGCAATGTCC ATTCTGTATC TTGGGTTANC 240
ACTAGTAAGT CAAATGGNGA ATAATTGAG TGTCACNT TCCCTNCAGT TNGGAAAAAN 300
TTTTTANCNG TTN 313

SEQ ID NO:6320

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07483

SEQUENCE DESCRIPTION:

GATCTGTGCT TTNCCCACT TTGCCACACT GTCTAAGGTG GCTTTNAACT GGAACCCAAG 60
TGCAATAAA GGTGGTATT CGCTCCTGAA AAAAAAAAAA AAAAAAAAAA AAAAAANAA 120
AAAAAAAAANA AAATNAACNA AANN 144

SEQ ID NO:6321

01841

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07484

SEQUENCE DESCRIPTION:

```
GATCCCTCCT CACTTGCCCT GCCACTTTGC ATGGTTTAT TCTTAACCTG GTCCCCCAG 60
TGTNAAGTGT AGTGGCATCC ATTTCTAATG TATGCATTCA TCCAACAGAG TTATTTATTG 120
GCTGGAGATG GAAATCACA CCACCTGACA GGCCTTCTGG GCCTCCAAAG CCCATCCTTG 180
GGGTTCCCCC TCCCTGTGTG AAATGTATTA TCACCAGCAG NCACTGCCGG GCCTCCCTCC 240
CGGGGGCACT GCCTGAGGGC GAGTGTGGGN NTAGCATTAG CTGCTTNTN CNNNCCTGGN 300
ACNACTGTG GCCTGGAATN GNATAGTGGT NN 332
```

SEQ ID NO:6322

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07485

SEQUENCE DESCRIPTION:

```
GATCTAATTA ATGTGAAGGA CTNGCCAGTC TGGGAAACCG CCTGCCACGT GGAAGAGCCA 60
AACCCGACTC TNTGCTGCCA CATGCCGTTT CCATGCCCCG CTGCTGGGCA CCTGGNAGAG 120
CTTCCAGAAT CCTCGCAGAC AGCCCAGAGC CTGCCGCTAC CCTCGGCCTG CCCACCACCA 180
AGCAAGCAGC AAGCAAGATG GGGTTCTCAT CAGTTCTTCC TTCCACAAT GTAGGACCTT 240
TCCTTTTACC TTTNCAATGG GATAAAATAG TTCAGAGTTC ATTAGTCATA TTTCATTGGN 300
CACAAGGAAT TCAANGGTTT TTTNANCAAT TTANCANTTC ACCCGTCTTA TGTINGTTAA 360
NANTNANANC NANTCN 376
```

SEQ ID NO:6323

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07486

SEQUENCE DESCRIPTION:

```
GATCACAGAC ACCCAGTNCG TGGNCCCTGT CTTACCCCA GCNAGCATCA TGTNAGTGGG 60
CCTCGTTCCC CCCGGAGAAT CCCAGCGGGG CCTCANAGAT GCATCTGGN 109
```

SEQ ID NO:6324

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07487

SEQUENCE DESCRIPTION:

```
GATCTTGGCT GCTTTTAACT AGAAGGTGTC TTTNATNAGC ATATTTATAC TGCTGAAGGA 60
TGAGTGTNAA TTAAATTAA CTTTGCCGTT TTGTAGAGAA AACTATTCAC AAGATAAATN 120
CCAAGTCTTT NCACCTGTCA GGCATGCATA TNTNAN 156
```

SEQ ID NO:6325

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07488

SEQUENCE DESCRIPTION:

GATCCCAGTG AAGGGTTTTG TGTGTTTAGG CCTCATTTCT TTGTCTTTT CCTACTCCGT 60
 TCCTGGCATT TCCTGATTTC NAGTGTATAC TCTGTAGTCT CAGTTCGTGT TTGATTCCAT 120
 TCCATGGAAG TAAAAAGTAT GTTGTACATA CTGCCGAAGA ATTGTCTTGC AAGTAAAGGC 180
 TTCCCCCTTT ACTATAAGAC TATAANTAAA ACCTTATTN ATCCTTAAA 229

SEQ ID NO:6326

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07489

SEQUENCE DESCRIPTION:

GATCTTACAC ATTCTGTGTA TAAAGACCTT AACTCCACAG GACGGACATT TTAGAGTTTA 60
 AATTATTAAG GCTATCATTG TTTTAGTAAT GTCATATTTG CAACTTTTT NAGTTTTGGC 120
 CTTTAATTTA AAANGCCTAA TTTTAANGTG CTGCCTGTNA GTAACCTTG ANTAANANCA 180
 ANTTATNACN 190

SEQ ID NO:6327

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07490

SEQUENCE DESCRIPTION:

GATCTCAGCT CTTTNGGTGA CTGCATATGC AGTGGTGACC CAGCACAGTT TCCATCAATC 60
 TCGTCAAAAG ACTTGAGGTT GTTGGGCACA GTATTTCAGA TGACCACAGT TAAAAAGCTG 120
 GGTATACACA ATTAACANCC AANGTGATAT GCATTTATAC CTTTCCCTTT ATGNCCAATT 180
 TCTTTATAAA TATGGCTCAT CTGCTCATAA CTGTTAGNCC CACCCAACTG TCATTAGTAA 240
 CCTGAGTGTT TATGCTTGCA AAAGTGTATG TTGTTATTGT CTGATTTGAT NATATTCNGT 300
 GNTGTTTAGN GAATGCNGTN GTGTTTNANT GNATCACAAA NAATTNCCCC ATTNN 355

SEQ ID NO:6328

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07491

SEQUENCE DESCRIPTION:

GATCATTTGA ATCTCAGTCT TCAGCCTGCA CTGATTTGTA GCCTGCACTG TCTTACTGAT 60
 TTACAAACTG AAATCACTGA GAAATGTCTT TAGTTCAGTG AGAAGAAACC AGAACAATTG 120
 TTCCTAGTGT TGTGTTGTTT TTTTAAAGCA AATTACTTAC TGTATTTTNA TGGCAGGNGG 180
 GNGAAAAAGT GTTACAACGG TTTCTAATGA AGTCCGGTAT TTANNTGGTA AATGACTAAT 240

GTGTTTAGTA GTGCCAAANT AAACCATTAN NTGNTTGTCC TTTGCCAAAN ANANNANN 298

SEQ ID NO:6329

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07492

SEQUENCE DESCRIPTION:

GATCACAAAG AAAAAGCATT TTTAAAAAGT TGGCAAACGC TGAAACGCAC TGTGGTATGA 60
GGCGCATTGC ATTTCCATAG CACTGAAGTA CCAGTTTCCA TTCCTGGGCT GNGATTGTTT 120
TTCCCGTGGT TGTATTGTTT TGATTTAACG ACCACCAGNG TAACTGNNTT TTTTGTGTTT 180
GTTTNCCTGGT GGGGTNNCCA CCAATTAAAA CTNNTANAAN CCCGN 225

SEQ ID NO:6330

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07493

SEQUENCE DESCRIPTION:

GATCGACTTC GATAAAATAC TTTTGCCTAA TCAAAATTAG AGTGTGTTTG TTGTCTGTGT 60
AAAATAGAAT TAATGTATCT NGCTAGTAAG GGCACGTAGA GCATTTAGAG TTGTCTTTCA 120
GCATTCAATC AGGCTGAGCT GAATGTAGTG ATGTTTACAT TGTTTACATT CTTGTACTG 180
TCTTCTGCT CAGACTCTAC TGCTTTTAAT AAAANTTNAT TTTTGTAAT 229

SEQ ID NO:6331

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07494

SEQUENCE DESCRIPTION:

GATCTAAAGA CCCGATAGGT GCAGAACCCA TCTGGACACG GAGACCAGGA ATGGAGTTCC 60
ATGGAGGCCT GGCTGGCACT GCACCCGGGC ATGAGGACAC ATCCAGTAAG AAGACCTGCC 120
TCAAGAGGTG CACTGCGGTG ACCAGTGGAG GTNACTGGTT GGAGCCTGGA ATTGAAGCA 180
GATTCCAAGC TCTGGTGGAC AACTCTCCA GGCCTGGTGG GATTACAGC TGGGGCAGNC 240
CTCATCCTGG CTGCNTGGCC ACAGNCCCNN GCTNTTTNCC ACTTGGTGGT AGGGCCGATG 300
CCTTNTTGG ANGAGNTGGG NTTNTTTTGG TCNCGACTGN GTANN 345

SEQ ID NO:6332

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07495

SEQUENCE DESCRIPTION:

GATCACAAAG AAAANGCATT TTTAAAAAGT TGGCAAACGC TGAAACGCAC TGTGGTATGA 60
AGCGCATTGC ATTTCCATAG CACTCNAGTA CCAGTTTCCA TTCCTGGGCT GAGNTTGT 120

TTCCCGTGGT TGNATTGTNC TGATTTCACG TACNCCAGAG TAACTGNTTT TTTTGTGTT 180
GTTTTCTTGT GGAGTTAACA CCANNTAAAA NTTGTAAAN 219

SEQ ID NO:6333

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07496

SEQUENCE DESCRIPTION:

GATCTATTTC TCAGCTTCA CTTATGTGAG CCAATAAATT CCTTTTTTGT TGAAGGCAAA 60

SEQ ID NO:6334

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07497

SEQUENCE DESCRIPTION:

GATCTACCCC CCCATCAACG TGCCCCCTCG ACTCCCGGTG CTGCGGAAGA ACTGAAGGTT 60

GCNATGCCTT ACTCTGACGG GAGCATCTGT ATTTAATGT TAAAAGCCCA CAAAATAAAA 120

ATAAAAAGTA ACTGAGATGA ATTAATAAA CAAA 154

SEQ ID NO:6335

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07498

SEQUENCE DESCRIPTION:

GATCTATGCT GTATGCACAG ATTGCATAAT GGCTTTTTTN CTTAACATTA TGTGATAAGC 60

ATTTCCTGA ATAANCCTAT TTAAAAATAA A 91

SEQ ID NO:6336

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07499

SEQUENCE DESCRIPTION:

GATCAGGTGT GGCCAATNAA ATTNAAGAGG AAGTCTACCT GGGNTTCTGG GAAAGCTTTT 60

CCAATAAAAG ACACAGGCAT GGCTAACACC TCCCTGGGCC TCTTCTTCCT ACCTTGATTG 120

AGGGTGTGAT GCCTGGAGCC ACAGCAGCCA CTTGNNNNC ATGACAAAAA GGCCAAGNGN 180

N 181

SEQ ID NO:6337

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07500

SEQUENCE DESCRIPTION:

GATCACCAAA ACCTGATGTT TTAAATNTGC TTTCTTTTGG AAATTTATGT TTTCAAATAA 60
AATCTCCCTA AAGCAAA 77

SEQ ID NO:6338

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07501

SEQUENCE DESCRIPTION:

GATCCTATGA GTGTAGTTAA TGACTGTTNG TAAGTCAGTA GAGTAAATN CTGTGTCCAC 60
GGGGTGTAC AGCCTCACCA TACCCTGTTG AGGTGTGAAA TGCCCCGTCA GAAATTAAAT 120
ACAAACTTAA ATGTGCCTAT TGGTGTCTAA NCTTCATACA ATGTAAGGNC AGATTCCTTT 180
TNGGNNTACT GGGTGTCTGC GCCAGGTTTG NTAGTTAGAC TTAAAANCTT GANATTCACT 240
TTTTGGGGGG NGGGNTATAC TGANN 265

SEQ ID NO:6339

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07502

SEQUENCE DESCRIPTION:

GATCTATTGG AAAACAACAT GGAATGGAAT TCTGGAAATN ATTATTCATT GAAGAATGCA 60
GTGGCCAAGA AAATATCAAA TGTAGATTGT NAACGCTTGA GAATCATGGC TATGGTTTCT 120
NATGTCCTGG TAACANGCTG TTATCTTTNN NGACATTTN N 161

SEQ ID NO:6340

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07503

SEQUENCE DESCRIPTION:

GATCTAGTTA TAAAATACAT GAAAAGGCTG ATGCAGCAAT CGGTGGAATC GGTTTGGAAAT 60
ATGGCATTG ANTTTATTCT TGACAATGTC CAGGTGGTTT TANAACAAAC TTATGGAAGC 120
ACATTAAAAG TTACATAANT ATTACCAGAG AGCCTGATGC TCTCTGATAG CTGTGCCATA 180
AGTNCTTGTG AGGTATTTNC AAAGTGCATG ATAGTAATGC TCGGNGTTTT TATAATTNNN 240
NNTTCCTTTT AAAGCAAGTN TTTTGTACAT NN 272

SEQ ID NO:6341

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07504

SEQUENCE DESCRIPTION:

2153480

GATCAGTGTG GAAAAGCCTT CANTCAGAAA GGAAGCTTAA TTNTNCACAT CAGAGTCCAC 60
 ACAGGCCTGA AGCCCTATGC CTGTNCCCAG TGCAGGAAGA GTTCCACAC CAGGGGGAAT 120
 TGTATTCTGC ATGGCAAAAT CCACACAGGA GAGACACCCT ATCTNTNCGG CCAGTNTGGA 180
 AAAAGCTTCA CCCAGAGAGG GAGTCTGGCT GTGCACCAGC GAAGTCTTCA CAGAGGCTCA 240
 CCCTTTGACC ACTTTCCTGA AGAGAAGTTC TCTTTATGAA TTAAGGAGTA CAAAATCCTC 300
 TGAGNTTGAN GCAACCCTAT CCAAGTTTCT ANTGGGANTG GTTGN 345

SEQ ID NO:6342

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07505

SEQUENCE DESCRIPTION:

GATCTGTCTG CCCATCTGGC CCAGGGGGTC CGAGAAGGGA AGCCTTGGGC AAGAGGNGAC 60
 CAGTTGCAAT ACTGTACTTC CTGGTCAGTG GCCAGAGGAT GCGTGCAATA GCAGAGGCCA 120
 GGTNACCCCT TCAGCCTTGG CCTCTGCCNC TCCATTGGCC CTCCCTNCCT GNTNCTNCNT 180
 GGTGTNGGTC AGTCCTTTTC TAAAGNTGTC CN 212

SEQ ID NO:6343

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07506

SEQUENCE DESCRIPTION:

GATCTTCGTA TAATTGGCCA CTAATGTGAG AGTTCACTAC TAGGCAGAAA CTATTATGGA 60
 CAGTNAATA ATGACTTTAA TCTCACCAGC TGAGTTTAT GCAGTCTTTC CTGTCTAGCC 120
 CTGCGCTCTN CCTGCCCATG TNATTGCGGT GCAGTAGTTT CTGTNGTATA ATAGTGTTGA 180
 CAGCAGCTCA GAAAAGGAGG GAATGCTACT GATAATTTGT AGATAATNNN NTTTANGACT 240
 TAGGGGAACC ATTGACCTTT GANATTTTNA TTAGAAAATN ATTTGTNCAG AATCAGACTC 300
 CATTATTTNC CATATN 316

SEQ ID NO:6344

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07507

SEQUENCE DESCRIPTION:

GATCAAAAGG AATGATGTAT TTTTAACGTG TTGGCCAAAG TCACTGGATA AAATGAGAAT 60
 TGTATATTTN TAATTCATTT TGCAAAATNCA GAAAGTTGGT CCAGATATAT GTCACAGANC 120
 TTTNCACTTG TATACTACTC TTACAATGGA AAANNNTCCC GAAANCTGTA TACTTCTGAT 180
 TANN 184

SEQ ID NO:6345

LENGTH:361

TYPE:nucleic acid

01847

2153480

TOPOLOGY:linear

CLONE:HUMGS07508

SEQUENCE DESCRIPTION:

GATCAGACCA TGCAGGTAAG GTGAACCAGC TGCACGGACC AGGTTCCCGC AAAACATTGC 60
 CAGCTAGTGA GGCATAATTT GCTCAAAGTA TAGAAACAGC CCACCTGTGC CCACTTTGAC 120
 CATTGGTGAG GATAGATATA AAATCACTTC TTCCAACGAA GCCTAGGTGA AAATCTATTT 180
 ATAAATGGAC CACAACTCTG GGGTGTCTGT TTTGTGCTGT GACTTCCTAA TTATTGCTAA 240
 AGAACTACTG TTTAGTTGGT AATGGTGTAA AATTACATTC AGCTCCTTCT TGTCATATAA 300
 ANAGGAATTT GGGGGGTGTC GGTTTAAANA TTTTATTNCA CCTGTACCAT TTNGTCACTC 360
 N 361

SEQ ID NO:6346

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07509

SEQUENCE DESCRIPTION:

GATCTGTTGT TATACCAATT GAATTAATTG AGTTNNTTGT TGGACATTTG GGTGGTTNC 60
 AAGTCTTTGC TATTGTGAAT AGTCAATGGC AGTATTTTNA ATGTTGGTCT ATTATTGTAC 120
 TAAATAGTTG TTTATATTGA GCTTGGGAAA GCTTTCGTGT CCAATAGAAA TAGCATATTA 180
 AAATAAATGC CACTGTATAT NAATGANAGT GTTGATTATA TACCCTAGAN ACTTAANCCT 240
 TAAGGNAGTT ATGTNTNAAT TNNCTN 266

SEQ ID NO:6347

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07510

SEQUENCE DESCRIPTION:

GATCAACTCC AGTTTCCAAT GTCTATGTGT CTATGTGTGT ATGTNCCATA CATATGTATT 60
 CACATGAAGA CCGGCATGGC CAAGTNCCTG TGGAGGAGCA CTCAAGTGTG ACGAGCAGGG 120
 CCACTGGACC CTGCAGGGCT GTGGTGTATA TAGTGCAGCT TTGGAGGTGG AACTCTATTT 180
 NAACACTTTT CTATGGAGCC TTCCGAGTCC CAGGTTTTNA CTTGAGGCTG TCTGTCTGGA 240
 TGGCGGTTTT NAGACCTCCA TTAACATCCC TACCAGCAT TCTGTACTTC GGGGGGNCCT 300
 CTATCTTGTN ATAAAACCTN TTACCAAGTG GAACATCGGT TACCCACCTT TTGTN 355

SEQ ID NO:6348

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07511

SEQUENCE DESCRIPTION:

GATCGTCCTG CCTTTGTAAG GCAGATTTGG AGGGGAGGCC CAACAGCAAA GATGGAGAGG 60
 AAAAAGGGAG TGGAGCTTGT GGAACAGGAA GCCCCCAGG GTCTGTCCAG GGCTGCTCAG 120
 CTCTTNAGGA TGTTGTGGAT GGTGAAGTGG TGATGGTGTG CTGGAGCAGC CCAGCACCTC 180

01848

CACTGGGCCC AGAAGGTCTT GACTTCGGAC ACTTACCCT GTTTCACAAG TGTTTATAAA 240
GCTGTTTTTN CTTTNGTTTT TCTCCTAAAT AATCCTTACT TGGTAGTTAT NAATCCTTCT 300
TTGGGGGAGG GACAGGGGCT TTAAANCCTG GAGGAAAATT AATTTNNAT TAANGGAN 358

SEQ ID NO:6349

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07512

SEQUENCE DESCRIPTION:

GATCATGGAA GCTCCGTGCC CCTTCTCCCA TTCCTTGCCC TAAGTATCGC CTCCATCTGG 60
TTGTTTGTCT GTATCCTTTA TTAATAAACA AGTAAATNTA AGTAAA 106

SEQ ID NO:6350

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07513

SEQUENCE DESCRIPTION:

GATCAGTGCC AGAAGTCATT GTATTCAAAG AAGAATAAGC AAGAAAGAAA AGAAGGAAGG 60
AAGAGAGGTA GACAGATACA AGATGAAATC CTGTCAAAAA ATGGAAGGAA ANCCAGAAAN 120
TGAGAGTNNN CCANN 135

SEQ ID NO:6351

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07514

SEQUENCE DESCRIPTION:

GATCAGGAAC ATGGCAAGGA ACACCACACC ACTGCTTTTN AGCATTGTAC TGGAAGTNCT 60
ATATAATGCA GTGTTAAAAA AAAAAGAAAT AAAATGCACA TAGATTTGAA AGGNTGAAAT 120
ACAACTTTNT NCACAAGTAA CATGATTGTN TTTNTN 156

SEQ ID NO:6352

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07515

SEQUENCE DESCRIPTION:

GATCAAAAAG AAACATGAG TAACAAGCTA TAACATAGTT CACCACAATG GGACCCCCC 60
CCCTTTTCCT NACCCTACAG TTAGTAATAT TNCAATTAAA NTANCTATAT TCTNCTATAT 120
TTTNCCTGTT AAN 134

SEQ ID NO:6353

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07516

SEQUENCE DESCRIPTION:

GATCCACATA TCTCTAACAC CATTAAATATG AATCATTGGA AATATTTTAC TTATTAACAA 60
AGTCTCTTGT GTTAAGCTAC AGATAAAGCT TTTGTGGTAG TGTCAAA 107

SEQ ID NO:6354

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07517

SEQUENCE DESCRIPTION:

GATCCAGAGA CATGTGGCAG CAGGCATGGC TTCCCCTTGG CCTCTCTGTA CACTGCCCCA 60
GGACTGTCAT TTTGGCATCT GCAAAGGAAT CACTTTAGAA AGCCAGCACC TGGTTGATGT 120
GTATTCATAC TGACATTAGA TTGATGTGCA CTGCAGGGGN AANNGCGTA GCTGNCACAG 180
NAAAAGGATG TTTTGATAGG AATAATTTTC TAGTATGTCT TGAACATGT TCATCTGGAA 240
GTATTTTCCT CCAAAGTAAT GTAGCATGAT TTNCAAGGA TTGTTAACAT GCCTGGGATT 300
GGGAAAAGNTA GGCCTAANGT TGTGCCAAAC TATATCAATA AATTCCTTN 350

SEQ ID NO:6355

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07518

SEQUENCE DESCRIPTION:

GATCCCACTT GCATGCACCC AGAATTTTAT ATCCCCCAGG AATATAGCAG AGGAATATTC 60
TGGTATCATA TTTATCTTTC ACCATCTCAA AAATTACAGT TTTAAAAACT CAAATAAAAT 120
TCATCACTAT AACCAAA 137

SEQ ID NO:6356

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07520

SEQUENCE DESCRIPTION:

GATCCAACCC TTGCTAGGTA TCATAGTTTA GGCCCATTTA CCTTCCCCTG TACTGGCAGT 60
TCAGCCGCTT ACATGCACTC ACCCTGTTTG TGGCTATTTT AAATTCATAT TATTAACAAA 120
CAAAAAAAC CCAAA 135

SEQ ID NO:6357

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07521

2153480

SEQUENCE DESCRIPTION:

GATCCTGTCT CAAAAAAAC ATAACCGACA TCCAGAAGTG AAATAAATTA GCCAGTGTCA 60
CAAAGTAAA 69

SEQ ID NO:6358

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07522

SEQUENCE DESCRIPTION:

GATCTTAAAA NTACAAAATG TAGACAATTA ATATTCAGGT GCTTACTTTT GAGCCAATAT 60
GTAGCAGAGA AAAACTAATT NNTCTGTGGC AGTATTTTNA TTTTNGGCAT TTCCAGGAA 120
TTAACTGAAG ACTAAAACTC ATATGTGANG TGTAAATGATA CTANGGNAAG AGTCAGTAAA 180
ATTNCCATTT GGCTACCAAA 200

SEQ ID NO:6359

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07523

SEQUENCE DESCRIPTION:

GATCTTGTAATATATATAAT NTAAATAANA TTAAANCTGT AATTCCTTTN CCCTCCAAAG 60
GCTTTTNTGT ACATGGCGCT GCATTTGGCT ATTCCTTTG GAAATAAATA ATGTN 115

SEQ ID NO:6360

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07524

SEQUENCE DESCRIPTION:

GATCTTCCCA CCATCACAAA TGAATTTAAA GATGAAAAGA AACTCAGTTG CTCATACAAC 60
TGCATTTTTC CTGTCTATTA TGGGAAACAT CAGACGTTCT GAGTAAGATA TATCTCATGG 120
CATTAGTTAA TATAACTNAT ATTGTTTAA TCATGGTATT ACATGCAATT NATATCAGAT 180
AAAAGCAGAA CACATTTTGT TNCTGCCTCT CTAAATGCT GAATGTAGCT GTNATGTATA 240
ANTCCATTTA GTTTTATGTN CTAAGGNCT ATTTGTGCAC TCCAGNTTN CAGTAAANTA 300
GNATTCCTAG TAAANCNNN 319

SEQ ID NO:6361

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07525

SEQUENCE DESCRIPTION:

GATCCTAATT TNNTCAGGAA TCCCGATGGA ACCCTGTGCT GTTNANACAT CAGTGTGTAA 60
AACTCTCTGT GTCCTGTTG GGCTGTCCAG ACAGTCTGGA CTCTTGTAATTTTAAANATT 120

01851

AATTAAAGGA AACAAACCAA A

141

SEQ ID NO:6362

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07526

SEQUENCE DESCRIPTION:

GATCTTTTGC TTAGACGTTA ACTTGATGCA TCATTGGAAA GNTGTTTCTC TCATCTCTGT 60
 CCTAAGGCTT GATAAAGTCA TAAAAATTGT NTTCTTTTGA CTAAG 105

SEQ ID NO:6363

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07527

SEQUENCE DESCRIPTION:

GATCTCAGGC CAGCCGTTTG TNCTCCTAGC AGGGTTGCTG TGCTGGCCAC ACGGAGAGGC 60
 CCTAGAGAGC CTCATGGATT GTAACAAAG AAGAAACGGT TCCTTTTGT TTTTAAAAA 120
 ATNATTTTAA AATACCGTTT TTAACACCGT TCTCTCGGTA CTTTTTTTAA GCTAAGTCAG 180
 CATTGTCTTC CAGTGTTAAA GGCATCCCTC ACCTCTGCAT TGACCTTACG NATCCATGCC 240
 AAGGAATGGG ATTTCCATCC CTGNGGCCAG TCAGTTAGGG TGTCAATTGT NCCTATTTGA 300
 NTTTTTAATG NAATCTGATG NGGTGAGNTC AGGTTTANAA NTCTCAAAN GNCGGTTNA 360
 TTGTACCAGG NNTGNTATGG ATTAATCCNT GN 392

SEQ ID NO:6364

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07528

SEQUENCE DESCRIPTION:

GATCTCCATT CCTTGGGCTC CGCGTCCGAN TTCATGGTGC GCCGCTGTGC TGGGAGCTGC 60
 AGTGGGAATN TNTGGGACAC CTTGACCAAA GGGGAGCTTT GTNTCGTGTG TTTTGAAAAA 120
 GGCTTAATGA AGAGAATGTT GTTCATTCTT AGTAGTATAG TTTGCAATTC TTAATGGCAA 180
 ATAATAAGTT TCAGTAGAAA ACAA 205

SEQ ID NO:6365

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07529

SEQUENCE DESCRIPTION:

GATCCTTTTC TACCCACTTT CCTATGGAGG ATTCCAAGTN ACCACTTCTC TCACCGGCTT 60
 CTACCAAGGT CCAGGACTAA GCGGTTTTN TCCATAGCCT CAACATTTTG GNAATCTTCC 120
 CTTAATCACC CTTGCTCCTC CTGGGTGCCT GGAAGATGGA CTGGCAGAGA CCTCTTTGTT 180

2153480

CGCTTTTGTG CTTTGATGCC AGGAATGCCG CCTAGTTTAT GTCCCCGGTG GGGCACACAG 240
CGGGGGGCGC CAGGTTTTCC TTGTNCCNCA GCTGCTCTGC CCNTTNCNN TTATTNCCTG 300
ACTTCAGGNC TTGAAACNNT TCCNGTGGTG TAAATAAAAA ANN 343

SEQ ID NO:6366

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07530

SEQUENCE DESCRIPTION:

GATCTGTACT TTGAAAACAC ATTGAGTCCC TTTAACCAGG AAGAACTCTT CTGGGCGACC 60
GTCCACATGT TCCTTTCCCT TCCTAATGAC GTGAAGTCTG AACTCTACAG AGCCTCTGTA 120
CCTTCTCTTT AAAGGCAGCT CTGCTCACCA GGAATTGGCT ATAATNCTTT CCAACTCTCT 180
CATCATTTTA ATAGCTATCA GCAAATGTAG AGGTGTAGGG GATTTTGTA CATCTGATGT 240
ATGTAAAAAG ANATATTCAA GTTGGAAGGC AGNCTAGAAC TGNCTGNGA GATGTTTGAT 300
GTACACATTA AANNTAAGGA ATTTTACATA AA 332

SEQ ID NO:6367

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07531

SEQUENCE DESCRIPTION:

GATCAAGAAT GGCAAGAAAA TCACAGCCTT TGTACCCAAT GACGGTTGCT TGANCTTTAT 60
TGAGGAAAAT NATGAAGTNC TGGTTGCTGG ATTTGGTCGC AAAGGTCATG CTGTTGGTGA 120
TATTCCTGGA GTCCGCTTTA AGGTTGTCAA AGTAGCCAAT GTTCTCTTT TGGGCCTATA 180
CAAAGGCAAG ANGGNAAGGC CNAGNTCACC ATCCCCTAAA TTTTAAAAG NAGTTTCACA 240
AAGTNTGCA TATTTNNN 258

SEQ ID NO:6368

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07532

SEQUENCE DESCRIPTION:

GATCTGTACA TTATTGCATG TGGCAGTAGT GTATTNCAAT TTTGCATACT ATTCCATTTT 60
AAGAATATAT TGCTGTTTAT CCTATTGATG GATATTGTA TTTNTNATAC TTTTGTGTAA 120
TAATAAAAAT ACTGCTGTAA ATATTAAT 148

SEQ ID NO:6369

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07533

SEQUENCE DESCRIPTION:

01853

GATCTGATTC AAAGATAACC ATTACCCATC TTTCCAAGGC CCATCTAAGT AGTACAGGTG 60
 TTTTGTCTTT TAAAATTGAC AGTCCTCTTT GCATTAAGTC TGAGGGGGG GAATACAATA 120
 TAAATATTCT NCTGTGTAAA CGTAAGAATG TGCTGTAATC TCCAGTTCCT TTGGATACCT 180
 CAGAATTCTA TTTATTGTAT ACACCTTATAC TGTTTATNCA ATGTTTTGGG TCTTACTCTT 240
 TTTGACGTAT TCTCATCAGT CTTCACTCTA GTTGCAAGC NCTGAAGTTA TTGATTACGT 300
 CTAATGTGCA ATTNGGCTTC TATTAANTGC TATTTNATGG TTCN 344

SEQ ID NO:6370

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07534

SEQUENCE DESCRIPTION:

GATCTNTGTC ACACCCAAGC TGGTGGAGGA GCACCTCAAA AGTGCCANT ATANGAAACC 60
 ACCCATCACA GTGGACTCCG TCTGCCTCAA GTGGGCACCC CCCAAGCACA AGCANGTCAA 120
 GCTCTCCAAA GAAGTGAGCA GCCTGGCCCC TGCTGTCGGA CCTGAGCCTC CTGGCTNNGG 180
 GNCTGTAAAT ATGTATAGAC CTGTTTTGTC ATTTTTTTAA TAAAGTCAGT TCTGGTGGCC 240
 CTGNGACTTT GGNAGGGNAA GGGGGAGGCC ANAAANANTA AANGGGGGGA AN 292

SEQ ID NO:6371

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07535

SEQUENCE DESCRIPTION:

GATCCACCTG CCTTGGCCTC CCAGAGTGCT GGGATTACAG TCGTGANACC GCACCTGGCC 60
 AATTTAATA TTTTAAGTGA AGATGTTTCA TATAATATTC AGCAATATAA AAATTACTAA 120
 TGACTTTTTT GGTAAGAAA 139

SEQ ID NO:6372

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07536

SEQUENCE DESCRIPTION:

GATCCTAACC GNAGGCCCAT CAATTGCAAC ATAGAGATAC ACATGGAAAAG AGGGTTTAAC 60
 AGACCTCTC TNGGACACAN CTGTTTCTCC TTTGAGCANT ANTTN 105

SEQ ID NO:6373

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07537

SEQUENCE DESCRIPTION:

GATCCAGACC AGCGTCTGGC CCAAGCCATT CANAGGTGGG GTCTGGGGNC TGGGGGTTTT 60

2153480

GTNTCGTGAC ACTTTGTCTC AAGGAGATTC CACATAGGGA TTTNAATTAG GCTTTCTNCT 120
TGCNAAGGCC TGTGGCATCT AANCCTGGCT N 151

SEQ ID NO:6374

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07538

SEQUENCE DESCRIPTION:

GATCTNAGGC AGATAAGAA ACTTCAACTT ATTNAGAGA GGAGGTAGGG GATGGGGAGG 60
TCACAGAGAA CTCTGGGTTT CTNCAGTTTA CTATGCCACA GCACCATATT TCCGGGTATG 120
AGTTCTGAGC CCCACAATGG CCATAAGCAC TTAACCACAG ACCTAGTGAC GTATGTATAA 180
NATATACACT AGATTCCAAA GNCTTAGTAT ACAAAGACC ATAAATATC TTATTTGTAA 240
TTGTTAANA CTGATTACAT GTTAANNTGN TAATNTTTN NNTATANN 288

SEQ ID NO:6375

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07539

SEQUENCE DESCRIPTION:

GATCCTCTAC CCCCGGAATG AGGACACACT TCAGGACCCA GCCCCACTGG AGTNTGGCCA 60
AGNATTCTCC CAGCAGGAAA ATGGCCATTN CATGGACACC AATGANTGCN TCCAGTTCCC 120
ATTCGTNTGC CCTCGAGACA AGCCCGTATG TNTCAACACC TATGGAAGCT ACAGGTGCCG 180
GACCAACAAG AAGTGCAGTC GGGGCTACGA GCCCAACGAG GNTGGCACAG CCTGCNTGGC 240
TCAAGTGGCC TTTTATAGTG GGTATTCTTC AGCCGTCTCT AGAATCTTN AGCCTCTTN 300
TNGGCCTCA NATCTTTGN 319

SEQ ID NO:6376

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07540

SEQUENCE DESCRIPTION:

GATCTCTGTA TGNCTGTGT GTTCTGTGT CCTGGAATTG GATGCGTGGG ACTCGTTCTG 60
TCCGCGGAGT GCACTCTTTT TTNCAGTGTG GCCCATATAT CTGTAAATN TTTGCTGAAG 120
AGTTGTGTCT ATATATAGAG AAAATATATA TAANCAGAGA AATAAA 166

SEQ ID NO:6377

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07541

SEQUENCE DESCRIPTION:

GATCCAATGC CCTAACTTT ACATAAGAGT TCCGGCAAGG CTGTGACTTC AACTTGTT 60

01855

2153480

GTAAGTCAA CCTGCAGAAT CAAATTTAGG GTTATGTTTT CAGTTGTATC AGTCTTACGG 120
CTACAAGATA TTAAAGAGAT TCTTTCCTGG TTATCAAA 158

SEQ ID NO:6378

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07543

SEQUENCE DESCRIPTION:

GATCTCACCT TGTGTGTCAT CATAGAATTC AACTGGACT AAAACCTTTT AAGTGTAAAG 60
ATTGTGGAAT ATGTTTATG CGAAGCTCTC ACCTTTATTC ACATCAAAGA ACCCAGACTG 120
GAGAGAAACC ATATGAGTGT CATGATTGTG GAAAATCTTT CAGCCAGAGT TCTGCCCTTA 180
TTGTGCATCA GAGGATACAC ACTGGNGAGA AACCATATGA NTGCTGTCAG TGTGGGAAAG 240
CCTTCATCCG GNAGGATTGN CCTCATTANG CACCNGNGAT TTCATGTTNG NGNAGAGGCC 300
TATANTTGTG ATCAATGGTN ANN 323

SEQ ID NO:6379

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07544

SEQUENCE DESCRIPTION:

GATCCTTCTA ATCTCCTGGA CCCTCCAGGG CACTCTGGTC CCTATTCCCC AGCTCCTAGG 60
CAGCTGAGCC GGGTCCCTTA GGGGAGGTGA CCAGGAGCTT TGGTGCAGGG AGCTCTTNGT 120
GGGGCAAAGG GCTGGACCCC TGCCAGGTCT GTGGACATGG TTATATGCCC GGNGAGGGG 180
GGTACAGGGC CCCAGGGATG GCCCCAATC CCACCTCTGT TTATTCTGTA AACTGCAACC 240
TATAAATAAC CTTTAGCATT CCTATTTGTA ACAAATNG NNTTTNTGNA AATAAATTAT 300
ATTCCTAGT CTAATAAA 318

SEQ ID NO:6380

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07545

SEQUENCE DESCRIPTION:

GATCTTCTCT GCCTTTATG TTTTGCCATT TCACTAAAAT ATGTTTAGAG ATATATAAAT 60
NCTGCTTGA CTCTAAA 77

SEQ ID NO:6381

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07546

SEQUENCE DESCRIPTION:

GATCTCATTT TACAAGAGAA TCTCTCTGCA AA 32

01856

2153480

SEQ ID NO:6382

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07547

SEQUENCE DESCRIPTION:

GATCTCTAAG TGTAGCTGTA AATTTTGGGG TTAATTTGGC TTATATTGGN CCTTTTAAAA 60
GNAATAAAGT TTTTAATGC AAA 83

SEQ ID NO:6383

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07548

SEQUENCE DESCRIPTION:

GATCTATAAA GAAACATAAG CTTAAAGTTG TTTATCACTG TGGTGTTAAT AAAACAGTAT 60
TTTCAAAAAA TAAA 74

SEQ ID NO:6384

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07549

SEQUENCE DESCRIPTION:

GATCCAGACC TCTCTAATAT GAAGAATAAT GAGCCTTATN ACTATAAGTT TGTNAAATGG 60
ATGACTAAAC ATAAGAACT ATCAGCCATC CCCGTTTCAG CATTCTGTAA CTCAGAGACT 120
AAATCACAGT TTGAGAAGTT TGTNCGTTT TCCTTCATTA AAAAAGACAG CACACTGGAT 180
GCTGCTGAAG AAATCATCAA GGCATGGNGT GTACAGAAGT CTTGATTGT GCAGAATGGN 240
TTAATGTTTC TGTTAGATGA CCTAGTATGG NATGTGNACT TAGTGCTGCC ACCTGCTGGG 300
ATGTTAANNG ANTGTNGGAT GCGTGGCCTG GCGGTGNNNG CN 342

SEQ ID NO:6385

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07550

SEQUENCE DESCRIPTION:

GATCCTGTGT TTTGAGTCCC AAAGGCCATG CCAAGGATTG GCTTTGGNTG GCTTTAATCA 60
CCAACCCATC AACATCAAGC CTCNCAGG CCGGTTCAAA TAAATGTANT TAAATAAA 118

SEQ ID NO:6386

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

01857

CLONE:HUMGS07551

SEQUENCE DESCRIPTION:

GATCCAACAA ATTAACCATA TAAGCACAGA AAATAGAGAA ACACAGTTAT TGAATCTACT 60
 CTTGTCATTA ACATTTTCAA AAAACAAAAT GCATATTGTA ATATTTGGTA CATGACACTT 120
 GCATGTTGNT ATGCCTATAT NCTTGCAAAG NATTCAATGT GTACTTAGCG GCGNTTAAAN 180
 CTATGTCATG TACAACNTT ATAAGCNTT TTNCGGGGT CCCATTTGCC CTTCATCTTT 240
 CAGTAAAGTC TTTGTCAGGN AANNGTTGTN TGGTTAN 277

SEQ ID NO:6387

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07552

SEQUENCE DESCRIPTION:

GATCCAGGGA TGGGAATGGG AGTGGGTAGG AGGGGTAATG CGGTCATTGG AGTCGGGGGC 60
 TGGAACATTA TGAGTGCTCA ATAAATATAA ACTAATGAGA AA 102

SEQ ID NO:6388

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07553

SEQUENCE DESCRIPTION:

GATCCAGAGG TGGGTGCAGC TGAAAGTAAA CAGAATGGAT TGCCAGTNAC ATGTATGCCT 60
 GCGCAGTTCC CTTTNNATT GCAGAAGCTG TGAGTTTGT NCACAATTAG GTTCCTAGGA 120
 GCAAAAAACC TCAAGGATTG ATTTATTGTT TTCAACTCCA AGGCACACTG TTAATAAACG 180
 AGCAGGGTGT TTTCTCTCTT CCTNTCTAAT ATATGGAGTT TCGAAGAATA AAATATGTGN 240
 GCAATATTTA AATTCTCAGG AATTGNCTNA TACTCTTGNG GAATGGANTT CAGTTTTCAN 300
 TCANGNTTTA CATTTNTGGT GGCTTAANAA NCNTTGGN 338

SEQ ID NO:6389

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07554

SEQUENCE DESCRIPTION:

GATCAGTCTT TTGAAATTGG GATTCTAAAT TAGAATGAGA GGAGGAGCTG CTAAAGCATA 60
 AAAATGGTAG GGGTGATTTT GGTNTTTTAT CCTAGTGACC AATGTTGACC ATTAATTGTA 120
 CATTATAAAT AATGTTTTCN TCTGGGACTT TTGCACTTA ANGCTGGTAA TTNTNATCAT 180
 AGGGCTTCAA ATACAAAAGA NTTGTATGCG GTNTTCAGAA AATAAACATG CTCTTTGCAT 240
 ATAAA 245

SEQ ID NO:6390

LENGTH:345

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS07555

SEQUENCE DESCRIPTION:

```
GATCTTNACG CGNCTGGGGG CGAAGATTTC GCCATGGATG AGGATGGGGA CGAGAGCATT 60
CACAAACTGA AAGAAAAAGC GAAGAAACGG AAGGTTTCGC GCTTTGGNTC CGAAGAGGGG 120
TCCCGAGCGC GGATGNTGAG GNTTATNACA GCNTGGAGCA GGATGGCGAT GAACCCGGAC 180
CACAACGCTC TTTTGAAGGC TGGATTCTNT TTGTAAGTGG AGTCCATGAG GAAGCCACCG 240
AAGAAGNCAT ACACGTCAA TTCGCAGANT ATGGGGAAAT TAAAAACATT CATCTCAACC 300
TNGNCAGGCG TTCCAGGNTA TCTGGAAGGG GGTNTNCTCT NGTCN 345
```

SEQ ID NO:6391

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07556

SEQUENCE DESCRIPTION:

```
GATCCCCTGC TGGTCTCTGG CAGTCTCCTT GATTTTGGGT ACCATGTATA TTTCCCGCTT 60
TNACTTTAAC GCTTTCTAGG ATAGGGTAAG CACCCTTAAT TCAGGCACCG TCCATNAGCT 120
TCCTTTGCAA AGGCTACTTA TGGCCGGTCA CAATCCAGCA CTCAGACAGA GCCAAGGCAA 180
TATCCTCTTG CCATGGGCTA TNATGTCAGA CAGTGGATGG GCTCCAGCAA CAAGAGTCAA 240
AATAACTAAA GGCCTTTGCT CTCCTCTGAC ATTGAGGCCT GGGGCTTACA GTTTGGAATA 300
CAACATGTGA NGGTTTTTGN TNGTTGTTG TATTATTGNA GAN 343
```

SEQ ID NO:6392

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07557

SEQUENCE DESCRIPTION:

```
GATCAAAAAT TGTGGCCATC TTGCAAATN ACTACCTNTA GCCTGTNAAA ATACATTTCA 60
AAAAATGTTA TGTGCAATGA AACTAAATT NAAGAGCAGT TACAGTGTGA CTCATCATG 120
TTTAAAAAAN ATCGAAGAGC TAAAAAATAC GTCTAATTTA TGTAACCCNT TGGNATGTAT 180
TNNTN 185
```

SEQ ID NO:6393

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07558

SEQUENCE DESCRIPTION:

```
GATCATTCTT TGTAATGTTT TGAGAGTAAT GCATACAGAA ATATAATAAA NTGTGTTGAA 60
ACTGCAAA 68
```

SEQ ID NO:6394

LENGTH:163

01859

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07559

SEQUENCE DESCRIPTION:

GATCCCCATT GTGTATGANC TGAACAAGGA GCTGAAGCCC ACCAAGCCCA TGNAGTTCCT 60
GGGTGATGAG GAAACGGTGC GGAAGGCCAT GGAGGCTGTG GCTGCCCAGG GCAAGGCCAA 120
GTNAGGGGTG GGCTTGGGCA ATAAAGGCAC CTCGCCCAAC AAA 163

SEQ ID NO:6395

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07560

SEQUENCE DESCRIPTION:

GATCAACTCC CACTCATCCT GCAGATTTAA GCTTGGATGT CACCTCCCGA GGGACGCTGT 60
GCCTGCCTCC CTCGTCAGAG CAGGTGTTGT CATCTACTCA CAGAATCTGG CTTCTTCCA 120
CAAAGCACCC CCGTGAGCAT CTGTTAACA TTGTCTCTCC ACCTAGACTG TAAGGTCCGT 180
GAAAGCAGGG ACCACACCCA TTTGTGCTCA CTTGGGACCT ACAGCCTCTA ATCCAGAGCC 240
TGACACAAAC CTCAATAAAT ATTTAAGGAC TGAAA 275

SEQ ID NO:6396

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07561

SEQUENCE DESCRIPTION:

GATCCGGGAC CTTCANACCC AGGGAAAGGG TGAGGGAGAC TGGGGCCTGG TCTGCTTTCC 60
CGGGCCTGAA AGCTTCCCGG AGGTTTGAGG GGTGAGGAGG GAGGAACGGT GGGGGNNGGC 120
AGTCACTGNN N 131

SEQ ID NO:6397

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07562

SEQUENCE DESCRIPTION:

GATCCATTTA AAACAAGCTG ATAGTGTTC GTTAAGCAGT ACATCTTGTG CATGCAAAAA 60
TGAATTCACC CCTCCACCT CTTCTTCAA TTAATGGAAA ACTGTTAAGG GAAGCTGATA 120
CAGAGAGACA ACTTGCTCCT TTCCATCAGC TTTATAATAA NCTGTTTAAC GTGAGGTTTC 180
AGTAGCTCCT TGGTTTTGCC TCTTTAAATT ATGACGTGCA CAAACCTTCT TTTCANTGCA 240
ATGCATCTGG NAGTTTTGAT ACTTGTAAC TTTTTTTTTT TTNGGGGNNN ANTNTTTNNG 300
GGNCCAGGGG TTTTTTTTNG GAACCCCTTG GGCNNTGGCC CNGGGGTACC CGGCNAGNN 359

SEQ ID NO:6398

LENGTH:61

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07563

SEQUENCE DESCRIPTION:

GATCTCTGAC GATACCTGTA TGTTCTTATT GTGTAAATAA AATTNCTGGT ATGAAATNAA 60
A 61

SEQ ID NO:6399

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07564

SEQUENCE DESCRIPTION:

GATCCTGTGG GAAAGAGAAA GGCATCCCAG AAGTTTGACT TGTTTTNCTT TTAGAATCTG 60
TCTCTGCAGG AAAGAAAAGT CATTTTAATA AAAACCAAAA TAATTTATAA TAATTGTNGC 120
CTTTCCTCC CCATCCTCTC CACTAAGCCA GCAACTAAAT GTATTCAGAA AACAAGTTAA 180
TCAAGGAGGG CAGAAGAATT TTTTAAAC TGTAAGAAAN TGTCCTAAG TTTAGATTTA 240
TTACCTGTCA TTTAGGGCAA AANTCCAGTG TCCCAGCAC ATGGTGACCC AACTNTGTCT 300
CACAGTTGCA AAGTGTGTG GAAAATAAAG TTGCTTTGTG NACTTNGNGG GNAANNCNNT 360
NANNNNN 367

SEQ ID NO:6400

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07565

SEQUENCE DESCRIPTION:

GATCAGGAAC CAAAAAGAAG AATGTACTTC ATCTGGTTGG GCTGGATTCC CTCTNATAAG 60
CCTTCCAGT TGAAGTAAAG ATGAGGCTAG GCTCTAGCAA GTTGAAGTCA AACCAGCTCC 120
TTCAAGAAGC TTTGAGCAGA ATGAAGTGGG GAGGACCCAG CTTCCAGCCC AGGAAGCCCA 180
CTGTACCTGG AGCCATCTGG GATAAGACTT TGACCCATGA CTCCCATATC CACAGCCTGT 240
CCATCCTAGC CCATCCCAGT TTATCCTGTA TCATTTGAGC TGGGNTTCCA CATCCTCTGA 300
GTTGGTAGTC CCATNTCAAG TCNTTNAATA AANGNCTNTT TGGANTATTT GANTTCACAT 360
TAAAAAANA ANAAGGCN 379

SEQ ID NO:6401

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07567

SEQUENCE DESCRIPTION:

GATCGGGGTA TGAAGTGTGC ACACGCAGCC CAACAACGGG CAGTGGTCTC TGTGCTCCTA 60
GGCATCCAGC ACAGGTTCTG GCAGGGCACC CCTGCTGGGG TTGGGGGCTG GTCTGTGCAT 120
AATCCTGGAC TGTGATGGGA ACAGCCCAGT GCAGTCTAAA CTTCAATTGT GTTGAAACTA 180
CTTTAATAGA CAAAGTAATA AATCATGTTT ATCTATTGAT TTAAT 225

01861

2153480

SEQ ID NO:6402

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07568

SEQUENCE DESCRIPTION:

GATCTTCAGT TGTATTTTNG TGAATATTTT AATACATCTT TTTCAATTTC TGAAAACAAA 60

SEQ ID NO:6403

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07569

SEQUENCE DESCRIPTION:

GATCCGGTGC TACGGGAAAC ATTTTCCTAA GATGCCCATG AGAACAGACC AAGATGTGTA 60
CAGCACTATG AGCATTAATA AACCTTCCAG AATCAATAAT CCGTGGCAAC ATATCTCTGT 120
AAAANCAAAC ACTGTAACN CTAATAAAT GTTTAGTCTT CCCTGTAACC TTCAA 176

SEQ ID NO:6404

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07570

SEQUENCE DESCRIPTION:

GATCTTCCCT GCGGCCTCTG CCCTGGCCTG CTTCCCAGCA CACACTTCTT TGGCCTAAGG 60
GCTTCTCTCT CAGGACCTCT AATTGACCA CAACCAACCT GGGCTTCAGC CACATCAGTG 120
GGCACTGGAG CTGGGGTGCA CATGGGGCCT GCTCACCTTG CCCACACATC TCCAGCCAGC 180
CAGGGCCCTG CCCAGCTTCA ATTTACAGAC CTGACTCTCC TCACCTTCCC CCCTGCTGTC 240
CAGAGCTGAA CATAGACTTG CACTTGGATG TCACCTGGAG TGTNACATGG GAGTGTTATG 300
GCAGCATCAT ACCAAGGCCT ACTGTTGCAC ATGGGGCCAA AACCAGTAAA CAGCCACCTN 360

SEQ ID NO:6405

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07571

SEQUENCE DESCRIPTION:

GATCTNACTA ATAAATGAAG GGAAAAAGGA AA

32

SEQ ID NO:6406

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07572

01862

2153480

SEQUENCE DESCRIPTION:

GATCTGGTCA TTTAAAAGTG TGTGGCACCT CCCCACCACC TCTNTCTCTC GCTCGCTTGC 60
TCGCTCCTGC TTTNACCATG TNATGTGCCT GCTCCCCCTT TGCCTTCCGC CATGATTGTA 120
NGCTTCCTGA GGCTTCCCTA GAAGCAGATG TCAGCATTAT GCTTCCTNTA CAGTCTGCAG 180
AACTGTGAGC CAATNAACT TCTTTCCTTA TAANTTAAA 219

SEQ ID NO:6407

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07573

SEQUENCE DESCRIPTION:

GATCCAGTTA CATGTATTAT NNTTTTCCTA CTTATGGAC TATTTTGGAG GGATAAGCTA 60
TTAAGACTAA GACTATGNGT GANAGTNGGG GAAGGAGCAG GAAGGGAGGA ACCTGCACAC 120
CACATTGGAA CCNGCACACC ACATTAACAC AAAGGCAATC TTCTGGCTCG GACTGTTCTT 180
TACTACTGTN CTAAAGAAA ATGTTTCATTC TGCTGCAGCT ANCTAGCCTC CATCTNCTAC 240
ACCAAATACT ATTCCATGCC ATGGAAGTGC TATGCAATAA CTNTCCAGG TAGGCACCTT 300
ATACCCGCTT AAANAGNCTT TAAANATNTG CANTTTTGGT NGGNGTN 347

SEQ ID NO:6408

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07574

SEQUENCE DESCRIPTION:

GATCACTCCT TATTTGCTGT TATTTTNGTN CTCTTAACCA TACATTCCC AATGTTTAAA 60
GGGTGGTATT TNGAGAAAGT NAATGGGTTT TGTAAGTGCC AGCNCTTTAT ATAAGCAGGT 120
AGACTAGCTT TTNCCCAGCA GACGCTTGTC TGTNTAGACT TCCTTAAAN AATTATCTTC 180
AAATAAGCA AAATCTCCAT AAAANGNN 208

SEQ ID NO:6409

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07575

SEQUENCE DESCRIPTION:

GATCCATAGA CTTAGCAAGT CTTGCCTTAT CTATGGAGCT CGATGGTGAG AATTGTNACC 60
ATTGTCTGAT GTCCATAGTT CCTTCCCCCT AGATTGTTTC TTTCCACGGA TTGTGTTTCA 120
CTGAACCATT NNATTTTAA TTTACCAAAG TACTGTACTT GGCTATTTGC AGTGTTTTCA 180
AAACCAAATG TTTCTNTTTT GGTGTTTTTA ATCTCCGATA CTTGGTGCAA TAGAAGCTGC 240
AAAGATGTGC CACTTNATCT ATGAAATGGA GTNTTGATA CCAATAAATN CTAGTTTAAA 300
AACANTTAN NANNNANN 318

SEQ ID NO:6410

LENGTH:233

01863

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07576

SEQUENCE DESCRIPTION:

GATCTGTAA GGGGTGGATA ACATAATATG CAGCTTAGGA TGCTATTTTA AGATGTATGA 60
TATTCAGTTC ATTCACCTGA TTACTTTGGT TGCAGCACAA CTGTATATAT NGTATAACCG 120
AAATTGATTA TTTNCATTGT CCTTAATGCA GTGATTTATA ATTNGAGCAT GTTTAATAAG 180
TTTNCCTTC TNGTAACTA GTCATTTGAC TGGNAANNNA TAANATNCTT TTN 233

SEQ ID NO:6411

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07577

SEQUENCE DESCRIPTION:

GATCCACGA GGACCACTNT GTAATTGNCA GGGGGCTTCC AGNNAAGACA CTGAACCTG 60
AAGCCGTGGT CTGGGGCAGG GTGCTGGGAG AGGTGGGCGG GGGNN 105

SEQ ID NO:6412

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07578

SEQUENCE DESCRIPTION:

GATCACCTTC CCACTTCATC CATCCCCACC CTTCCAGCTC CCCATCCATC CTGCTGAAAG 60
CATTTCCACC ACTCAATAAA ACCTCGCATT CATCCTCAA A 101

SEQ ID NO:6413

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07579

SEQUENCE DESCRIPTION:

GATCAGAAGG AATCCGNCGA GGCAGGGATG GGTGTGCCCA TGTNTGCCTT GACGGGACTT 60
CATCTTATAG ACTGTTAAAC TGTCACACAC AAACAGGCTT TCCACCCCTG CTCTGNGNGC 120
ACCACGCACA GNTTCCAGT TCTTAGTGTG GCTGTTTAAA GTAGAAAATC TGGGGGCTGG 180
GTGAGGCCAC TCATGCCTGT AACCAGGGC TTTAGAAGGC TGAGGCTGGG GGGNTTGT 240
GAAGGTCAGG AGGTTCAAGG CCCAACCTTG GGAACCATAG GCAACNACC CCCATNNTNT 300
NCCAAANTNG AAAAAANCAA AAAGGNNAA CN 332

SEQ ID NO:6414

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07580

01864

2153480

SEQUENCE DESCRIPTION:

GATCTACCAG CATAAATATC TNCTNATTG TCCCTATGCA TATCANTTGA GCTTCATATA 60
CCAGCAATAT ATCTNAAGAG CTATTATATA AAACCCCAA ACTNTTGATT ATTAGCCAGG 120
TAATGTGNN 129

SEQ ID NO:6415

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07581

SEQUENCE DESCRIPTION:

GATCTAGAGG AATTAGTCAT GACATCAAGA AAGGAGTCTA AAGAAGAGAA AGAAAATCAA 60
GATGAAAGAG AAGTAAAGA AGANGAACAA GAAGAAGAAG AAGAAGTCAG GTCAGCAGAA 120
ANTTCCTCAA ANTCTCCAAA GAAAGGTCAC TGATTCCAAG GCANCCTGTG GNAAGANGAN 180
TTCAGATGTC AGTGGGAGCC TCCAGGTGGG NGGNGAGCAT GCCTAANCCC TGGTGGCCAT 240
TGTNCTGTAC TANGGAN 257

SEQ ID NO:6416

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07582

SEQUENCE DESCRIPTION:

GATCCACAAG GCTTCTGTAT ACAGTTCACG GTCCTCGGCA TTGCTTCTNG TAATTTNCC 60
ATCCCAAAGG AGAGCTACTG TACTGACTGT ACTTGTGGAA TNCAGCGCTT CATTAAATTA 120
AGTTTATTAA AATGCAAA 138

SEQ ID NO:6417

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07583

SEQUENCE DESCRIPTION:

GATCTAATGG GACACGGCCA GTGCCTAGGG GTGCCAAGTC CAAGGCCTCC CACTGGGNGT 60
AATCGCTGAG AAGATGCCAA TTTTTCATCC ACCGGCTGCA CAGGCACAAA CTCCCCCACC 120
CAGGACGGCT GTNATGAGGT GGCCCTCCCT NTNAACCTG GTCCCTGGAG TCCCCAGCAC 180
CTGGGGCCCT GGTGGGGCTG ATGTCACAGG TGTTTACTGT GCTGCTGCAC TGGTCCTATG 240
NCAGCTTCAC CCCATGTGGG GACCACGGAA GGNACAATNC CTTACCCCCG NTTGCCGGGN 300
CCGTGCGGTN NNCAAGANGG GNCAAGGANG N 331

SEQ ID NO:6418

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07584

01865

SEQUENCE DESCRIPTION:

GATCCAGCTT ATCCTTTAAT TTCAAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60
 TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120
 GAGACCTGGG TGGTGA CTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTNAGT 180
 GCTTGATTTT ANGGTTTAT TTTTATGA ATGTCCAAAA TCTGTGTTTC CCCNNTGCCC 240
 TCCCAAGANN TGTGTGGGCC AGTTGAAAGT GTCTTGGTTT TGTGGTCAT CTTTCCCTN 300
 AATTTCTGGA GCANGNCCC TGAGNNCCNT GCCANAN 337

SEQ ID NO:6419

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07585

SEQUENCE DESCRIPTION:

GATCATGGAT GTAGCATACA CCAAAATCCA CCGAGACCTT TGCAAAATNA GGCTACTTGT 60
 TTNATTTTGC CAGATTATCA TGGGAGAGTC TTAACTAGT NCTGAATATT TGTAAGTCTG 120
 AGTACTTCAT AGAATTATAA AGAAGGTACA GCTGACCCCT TCTCACCATG TNGTAAATAT 180
 TTCCTGAGAC TGGGTGCAGT ACTGAGGGAT AATAATCTCC TGNTTTATCA AATCCTGACT 240
 GTCTAGAGCA ANTTGTACAC TCTCTTTGTG AATGGTCCTG TAACGTGTAT GNNCACATTT 300
 NTGGGTGCCT TAGANGTNGT NTTTTNCATG TGTGCTAATN TGCAGTTTCN 350

SEQ ID NO:6420

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07586

SEQUENCE DESCRIPTION:

GATCCAGGGT CTNAACCGCC GTGGGACGAG GAGGGCATCC CGGCCACAGC AGGGGCCGAG 60
 GAAGAGGAGG AGACAGAGGG GAAAGGGGAG CCGGCCTGAC CCACACCCCC GGCCATCGCT 120
 CCCTGGGCCA GGTTTAGAGC AGGGAGTTTG GCTGGTGCTG GGCCTGAGCC AGGGGGCCGG 180
 GACACCCTTG TTTCCGGTGG TCTTCCCGTT GTGGGAGCAG GTNGAGGGTG GAGACCTAAA 240
 CTTTGGGGTC CAGCTGCCTT CAGCCCNCT CCNCCAGACT AACAGACCCT TGGAGGCAGG 300
 GGCTGTGGAA ATAAATCTTT GCCTGNTGGG NTAAAAAAA ANTATNANNT GTGNNNGTT 360
 GN 362

SEQ ID NO:6421

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07587

SEQUENCE DESCRIPTION:

GATCTNCTCT CCCACCCACA CTTATCTCCC CCAGGGCCAC TCAAAGTCT ATACACAGGG 60
 GTGGTCTCTT CAATAAAGAA GTGTTGATTA GACCTGAATT TCTCCACCTA TAAA 114

SEQ ID NO:6422

2153480

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07588

SEQUENCE DESCRIPTION:

GATCTTTGCT ACTGGAGTCC TTTAACAACA CCTATAACGA TAAAAAATTC CTAATTNTTA 60
AA 62

SEQ ID NO:6423

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07589

SEQUENCE DESCRIPTION:

GATCCTTCAT ATTTAATTAA AAGTGTTTCAT TCAGGTAAGG TGTATGTTGA AATTTTNCCA 60
ATNATCTTAA TAAACCTGG CAATTTAAAA NCCAAA 96

SEQ ID NO:6424

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07590

SEQUENCE DESCRIPTION:

GATCTATTTA TNTAAGTATG TAGTAAACAA TATCTNAAAG TGTCCGATTC ACTACTTGTA 60
AATTAAAAAA GTNATGATTA ATGTGAAA 88

SEQ ID NO:6425

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07591

SEQUENCE DESCRIPTION:

GATCAGAAGA AGCTACAGTT TTNTTTTAAA CTGAAAAAA AATTAAGAAG TATTAAGGAA 60
AAAGCTTAAT ACTCTGGAAA CCAGACATCT GGTCTTTCTC ATGCGTAGGG AGCAGTGTA 120
ATGAAAGTGA AGTCAAACGG ACAGTTTTTT NCTGCATTAT GCACAAGGTG TTTTAAATTG 180
TCAGCTTAAG GTTTAGATGA NGATAATCTT TAACTTTGTT TACAATTTTG NCTATTNGC 240
ATTATCCCCC TTTTNCCATA AAANNTAANG TGAATATGTG TGCATATNNN TNTNGAGTCA 300
NAATTAACT TATN 314

SEQ ID NO:6426

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07592

SEQUENCE DESCRIPTION:

01867

GATCCTGTGG TGTGTATAA AAATGAACAG CTAAAAATTT ACCCATGACA AGATTAAAGC 60
 AAAAAATAAAC ACAAGTTGT TAGACTTTAA A 91

SEQ ID NO:6427

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07593

SEQUENCE DESCRIPTION:

GATCTTGTGC TATACTTTT AAAGCCATAC AAATAAGAGT GCTAAACTNT GGACTTAAAA 60
 GTAGGTGTNT AAATATTTT AATCAGTATT ACTTGAAAA TAAATATAA CAAACCCATA 120
 AA 122

SEQ ID NO:6428

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07594

SEQUENCE DESCRIPTION:

GATCCTAACC CCTGCAGGGC TCAGGGGTCA GCAGGGACCC ACTGCCCCAT CTCCCTCTCC 60
 CCACCAAGAC AGCCCCAGAA GGAGCAGCCA GCTGGNATGG GAACCCAAGG CTGTCCACAT 120
 CTGGCTTTTG TGGGACTCAG AAAGGGAAGC AGAACTGAGG GCTGGGATAT TCCTCATGGT 180
 GGCAGCGCTC ATAGCGAAAG CCTACTGTAA TATGCACCCA TCTNATCCAC GTAGTAAAGT 240
 GAACTTAAAA ATTCAATCAA ATGAACAATT AAATAAACAC CTGTGTGTTT AAA 293

SEQ ID NO:6429

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07595

SEQUENCE DESCRIPTION:

GATCTGAATT TGTAAGTTAT TAATGTGAAA GGGGGAGCAG GAAGCTCCCC GTTGCACAA 60
 AGGGGGATTT GTTGCACAA AGTTCAGTGT AAATACTGTG AGANTNGANT TCTGAAAAGG 120
 TCATATTTAG TGATTCAAA AGCACACATT TAANTGANGA CTGACTAAAT AANAGGTACC 180
 ACACACTTCT NGGTTGGTTT CATTCCAAA 209

SEQ ID NO:6430

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07596

SEQUENCE DESCRIPTION:

GATCTCCCTC AGTNTGCCCC CAGCCCCCAA ACTCCTCCTG GCTAGACTGT AGGAAGGGAC 60
 TTTTGTGTTT TTGTTGTTT CAGGAAAAAA GAAAGGGAGA GAGAGGAAAA TAGAGGGTTG 120
 TCCACTCTC ACATTCCAGC ACCCAGGCCT GCACCCACC CNCAACTCCC AGCCCCGGAA 180

TAAAACCATT TTCCTGCAAA

200

SEQ ID NO:6431

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07597

SEQUENCE DESCRIPTION:

GATCTNATTC CAGGATTGCT CAGAAATTGG AAAAAAACTC ACCTGTGCTT CCCAAATTTA 60
 TTTCCCAAGA CAAAGATGTC TATAGCACAG AAAAAAATGC ATGANTTAAA AAATCAAGAT 120
 GTATTATTAA A 131

SEQ ID NO:6432

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07598

SEQUENCE DESCRIPTION:

GATCCTGAGC TGTCCCATTA AACATGGCCC TGTCTCGGTA AA 42

SEQ ID NO:6433

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07599

SEQUENCE DESCRIPTION:

GATCCACTAG ACAGTTTNC A GTTGCTTGG AGGTANCTGG GTAATCAAAA ATGTTTAGTC 60
 ATTGATTCAA TGTGAACGAT TACGGTCTTT ATGACCAAGA GTCTGAAAAT CTTTTGTNA 120
 TGCTGTTTAG TATTCGTTG ATATTGTNAC TTTTCACCTG TTGAGCCCAA ATNCAGGATT 180
 GGTTCAAGTG CAGCAATGAA GTTGCCATTT AAATTGTTC ATAGCCTACA TCACCAAGGT 240
 CTCTGTGTCA AACCTGTGGC CACTCTATAT GCACTTNGGT TTAATCCTTT ATTNCAAATA 300
 ANTATACTAA AAGNCTTTAA ANNANGNNNA NN 332

SEQ ID NO:6434

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07600

SEQUENCE DESCRIPTION:

GATCAATACG GGTCTATTTT NATGTCAACT GAACACTGTA GGGTACCTTC CAGTCTTTTT 60
 CAAGATTGTN AAATTGAGAC AAGTAATTGA ATAATTGTC CTATTTTAAT TTAAAAAAA 120
 GTGAATGGNC TGAAATGTTA AATGTGAATG TNCATTCTN AATTGCAACT TTNCTACTGA 180
 GTGTTTGCAC TATACTTNCT GGAATCTNAT TTAACAAANN TANN 224

SEQ ID NO:6435

2153480

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07601

SEQUENCE DESCRIPTION:

GATCAAAAAG CACAAAGAGC TGGGGCAGAG GCAGGAAGCA GGGGCCCTCC TGGCAGCTCC 60
TCTNAGTGGG GAGAGGTTGG GCAGTGAGTG AGGGACCCCT AATGCAGGGN CTAGAAGCCT 120
CANTTTCCCC NTTTTACCCT TCCACACAAT AGCCTCTGTA GGNNAGGCTG CCCCATNCCA 180
CCNGGNTN 188

SEQ ID NO:6436

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07602

SEQUENCE DESCRIPTION:

GATCTAGGAC TAANACTTAA AATGTGGTTG GAATCTCACT CAAGGCCTAC CCACCTAAAA 60
CTGCGTTCTA GCAATTGCAT GCTGACTGCA CCTATGAGTC GTAAGNCTGT AGTTGCAAAG 120
TGTGTCTAGT TTNANATTCT TTCTAAATAC TGGTACGGGN AACAGGCATT CCAGNACTTG 180
TGGCTTGCTG GNGGTGGTNT GAGTNATGNG GAATCTTGGG AAGGGGTTC TGCCCTGGG 240
ANTTGGGGGG TTTTNN 256

SEQ ID NO:6437

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07603

SEQUENCE DESCRIPTION:

GATCCAGGGC CTTTAAACA TCCCCAAGT CATGGCCATA CTCACCATTA GCCAGTTTCT 60
AACATCTGTT TCAGGGTATC CAGCTGTAGA TGTTCTTATC CCCCATACTT GTGAGTTCTT 120
GGGGTTGCTC ACAAATACTA GGGGTTTTTG TTGTATTTT AACAAANTATA TCCTAATGTC 180
ATATTNATNC TCTTTGTAA CTGCTGGTCT TTACANTAAA GGNGTCATCT GCCTTTCAAA 240

SEQ ID NO:6438

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07604

SEQUENCE DESCRIPTION:

GATCAGCACC CTTCTCCACA TCCACATGAC TGGTTTTTAA TGTAGCACTG TGGTATACAT 60
GCAAACATCC GTTCAAAATC TGAGTCGGAG CTAATAATAA AAAATGAAAA ANCAGAAATA 120
AGAAA 125

SEQ ID NO:6439

LENGTH:321

01870

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07605

SEQUENCE DESCRIPTION:

```
GATCCGCCTG CNTCGGCCTN CCAGAGTGCT GGGATAAAG GTGTGAGCCA CTGTGCCTGG 60
CCACTCCCTT GAGACCCAGT TTCCACGTCT GTNAAATGGG GGAATACCCA CAGTGAGAAT 120
TAGATGAGAT AGATGCATTT NAAACCACAA ATCGGGGTGC CCACCTGTGG TGGGTAGTTA 180
GGGTAGCTGT TACAAAGTGC CCCAGCAGAG ACCCCCTTGA CTAACCTTNA TTCTTCCATC 240
TTTTCCACA GGTGGCAGCT GCCAACAAGA AGCATTAGAA CAAACCATGC TGGGTTAATA 300
AATTGCCTCA TTCGGTANTG N 321
```

SEQ ID NO:6440

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07606

SEQUENCE DESCRIPTION:

```
GATCTTTGTC CAGAAAATAA AGCTTTCTGT TGATTTTTTC TTTAAGCAAG AGGTAAGGAA 60
ATATGCACTT AAGANTATGT GTACAAGAAA ATAGTTTCTA AAATAAATTG AAATGTCTGC 120
AAA 123
```

SEQ ID NO:6441

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07607

SEQUENCE DESCRIPTION:

```
GATCCACTCT GGACACTCAA CAAGACCTGA ACAGGATTN CCTACCTGGT CCTTACACTA 60
CATCATCATC ATCTCATGCC CACCTGCCCA CACCCAGCAG AGCTTCTCAG TGGGCACAGT 120
CTCTTACTCC CATTTNTGCT GCCTTTGGNC CTGCCTGGCC CAGCCTGCAC CCCTGTGGGG 180
TGGAATGTA CTGCAGGCTC TGGGTCAGGT TCTGCTCCTT TATGGGACCC GACATTTTNN 240
AGCTCTTTC TATTGAAATA ATAAACCACC CTGTTCTGTG GAAA 284
```

SEQ ID NO:6442

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07608

SEQUENCE DESCRIPTION:

```
GATCTGGTAC GNGGTGGACG TCATGGCCCG ANATGCCAC GNAACACAG CGCTGACCTA 60
CGACCGGCAG GCCTCCAGCC ATGGAGTGCA TCAACGTGCT TCTNCAGTAC GGCTGCCCCG 120
ACGNGTGTGT ATAGTATCTG TTTTATTGA CTGCAGTCTC CTTGGTGCAA AANCAAANTG 180
GGGAANNTAA GGATACTCA GNATTTCAAA AGGAN 215
```

SEQ ID NO:6443

01871

2153480

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07609

SEQUENCE DESCRIPTION:

GATCTNAGAC TTCTCAGTC CAGAACTGTA AGCAATAAAT GTCTGTTGTT TATAAATTAA 60
A 61

SEQ ID NO:6444

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07610

SEQUENCE DESCRIPTION:

GATCCTTGCT CTACCTGGCT AGAGTTTCTN CTCATCAGAG CACTGGGACA TTAAACCAAC 60
CTTTTACAAC ACAA 75

SEQ ID NO:6445

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07611

SEQUENCE DESCRIPTION:

GATCTCAGCT CAGAGAGAGA GCATGAGGTC TTTTAACT GTCAGGAAAC AGAGCTGTGC 60
CCAATTCAC TCACTTTTG GCACAACTGT TAATCTGGGC CTTACCTAC CTTAACTGA 120
GTTTCTGCAA GCATAGCATT TTAGACACCC TGAATAACC TTTGGGAAT GATGCCACAG 180
AATAAAGTTC ACTCTTAACT TTTCAA 207

SEQ ID NO:6446

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07612

SEQUENCE DESCRIPTION:

GATCTGATAG TGGTAGGTCT ATCAGGAATA TCAGGNAAAA TNCTTTAAT GTTGTGGCA 60
AAGTCAATTC CTATCATTTG TACTTGACAC CAGCTACCTA GCAGGCTCAT TGTGAACTTC 120
AGGTTTCGCC CACGTTATTT ATATAAAGTA TCTCAGTGTA ATATAGGGAG TTGCTGGTTA 180
TTTGAAAATA GTAACAAAGG TAACCCAAAC GAGAACTCC ATTTCCATAA TTNGCTTTCC 240
TGAAAGTCAG GCATGTCTTT GAGGACAGGT TTTGGCAGTA TTNNNTNGT GCACAGGNGG 300
GAAATTN 307

SEQ ID NO:6447

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

01872

2153480

CLONE:HUMGS07613

SEQUENCE DESCRIPTION:

GATCTGCCTG TTTATTTTGG TGGGTGGTCT TTCCTCCCTC CCCTACCACC CATGCCCCC 60
TTCTNAGTCT GCCCCTGGCC TCCAGCCCCT AGGGGACTAG CTGGGTGGG GTTCCTCGGG 120
CCTTTTCTCT CCTNCCTCTT TTCTTTCTGT TGATTGTCGC TCCAGCTGGC TGTATTGCTT 180
TTNAATATTG CACCGAAGTT TTNAAATAA AATTTTAAA 219

SEQ ID NO:6448

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07614

SEQUENCE DESCRIPTION:

GATCTGGTGT AGTATATTTT ATCGCATTTT CTTATATTAA AAAATGTCTG CATGATTACA 60
TTTTATTTC TTTGTAATTT ACATTTCAGA ATAGTGTATT GCTATATGGG TGCCAAGATT 120
GANTATGAAG AACCCGAGTN TTTGTAGTAT TATAGTTTTA AGCAAATCTG TGTGGTGATA 180
CAGCCATAAG ANTGGGGCTT ATATAANCTC TGTACATGTA AGATTTTGTA CAGAGAATTT 240
TTAACTTTAT AAATTGTATA TGANCATGTA NN 272

SEQ ID NO:6449

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07615

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCAGCCTC TGAAATTGTT GGGATTACGG GCGTGACACN CGCGCCTGGC 60
ATGTATATCA TTTTNNATTG TGTATTTTGT AATTTTGTG TGTNAATTTA TTTTAAATAT 120
AGTTTTCAAT TTAACCTGTT AGTTTCTGTA GTGGCAAATC CTTGTGTTTG CAATATTGGA 180
TTATTTCTCC ATAAGAGTTT CACATTCTC CTGCTAGGAA ATCCATGGGG AATATTGGAA 240
TTGGGCTAGT TTTAATNNNA TNNCTAATGT TTAANGGTTT TGA AAAANAT TGGCGNCAA 300

SEQ ID NO:6450

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07616

SEQUENCE DESCRIPTION:

GATCTCCACT TTNCCAAAGG GCTGCNAGAG GTGATTGANA AGAACCGGCC TGCTGATGTN 60
AGGGCGTCCA CTGCCCCCACC ACCGTCCACA GCAGCTGTCT GAGCCCTCAA TCCCCAAGCT 120
GGCAGCTGTC ATTCAGGACC CCAACCCCTC TNAGCCCCTC TTTTCCCACA TTCATAGCCT 180
GTAGTGCCCC CTCTAACCCC CAGTGCCACA GAGAAGACGG GATTGAAGC TGTACCCAAT 240
TTAATTCCAT AATCAATCTA TCAATTACAG TCCGTCCACC ACCAAA 286

SEQ ID NO:6451

LENGTH:97

01873

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07617

SEQUENCE DESCRIPTION:

GATCTGTGCA GAGAGAGATG GCAGCCACTC CCTTCAGTCC TCCCAGATT CTGTAGCTAT 60
TTATGTAGCA GGCTCAATAA AATGTCTTCT CTCTAAA 97

SEQ ID NO:6452

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07619

SEQUENCE DESCRIPTION:

GATCNNAGGC ATNNTTCTT CAGTCAGAGC ATTCAATCCT CAAGCCATTC ACACATTAG 60
GCCTCATGCT TTNTCCTGTC TTTAATCACA TCCATTTCCT AACTCATTG AGN 113

SEQ ID NO:6453

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07620

SEQUENCE DESCRIPTION:

GATCATAAGT CATTCCTCCT CCCTTCCAGG CCTCCTGCTA TATTTGGGGG ACCTGACTNG 60
NTTNGCTGGA GTCCCATGAG GATGTGGGCC CNTTAATAAN GGATAGCAA CAGGCAA 118

SEQ ID NO:6454

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07621

SEQUENCE DESCRIPTION:

GATCCCAAAA TCCAAGGATG CTTGGAATCC CTTATATAAA ATGGCATGGT ATTTGCATAT 60
AACCTACATG CATCTTCAA TATGTAAAC CATCTCTAGA TTAATTATAA TACCAAATAC 120
AATGTAATGC TATGTAAACA GTTGTTACAA TGGATTGTCA AAGGCAAGCT CTNCTTGCCC 180
ANTNCGGGCC AANTGNNGG TNCATGAGCA AATTAANTNN NTGCTGGTAT TTN 233

SEQ ID NO:6455

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07622

SEQUENCE DESCRIPTION:

GATCCGAATT TCCTGCTCTA AACCTCCAC TGCTTTCTGC TGTTTCCACT GAGGAAAGAG 60
GATGTGTGTC ATTAAAGCTT TGTGGGACC TGTCACAGTC AAGGTGGGTA TAATTATGTT 120
TAATTTATTG AAGTGTTTCT GGCATCGTC TTTTCAAAT TCATATATNC TATCCAGAAG 180

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ANGTGNATTC ATTNNNCATT ATNAAAAAAN ATAAAAATATT ACCAGATAAA GCTCANCAC 240
NCNCTCTNCC CCN 253

SEQ ID NO:6456

LENGTH:44

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07623

SEQUENCE DESCRIPTION:

GATCTTTCCT ATCAGTGTA TAAAACTCA TATTATGGCA GAAA 44

SEQ ID NO:6457

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07624

SEQUENCE DESCRIPTION:

GATCAGGCAG GGTGCCATTN ATTGTCTTTC TCTCCTAGCC CCCTCAGGAA AGAAGGACTA 60
TATTTGTACT GTACCCTAGG GGTCTGGAA GGGAAAACAT GGAATCAGGA TTCTATAGAC 120
TGATAGGCC TATCCACAAG GGCCATGACT GGGAAAAGGT ATGGNAGCAG AAGGAGAATT 180
GGGATTTNAG GGTGCAGCTA CGCTCACCTT AAACCTTTGG TGGCCTGGGG TATGTCTTGA 240
GGCCCAGACT GTTAAGCAGG CTCTGCTGGC CTGTTTACTC GTCACCACCT CTGCACCTGC 300
TGTCTTGAGA CTCCATCCGN 320

SEQ ID NO:6458

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07625

SEQUENCE DESCRIPTION:

GATCCAAATN AGAACAGATT GGTTATTGCA GGTATCACAG CCTAAAGAAA TTATCTTTT 60
GCAAAAGAAA TATTAAATGA TTAGCAGTC TCCACGTGTG TTAATGTTTC AAACGTGTAT 120
CATAATGTGT ATAATTGTGT AACAAAATTG TCTACAATAA ATCTNTTGGT ATTTGTAAA 179

SEQ ID NO:6459

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07626

SEQUENCE DESCRIPTION:

GATCCATTCTG CCCCAAGGGG ACAACGGGGT GTNAGNGGAG TAAGGGGTGG AGGTAGGGGC 60
CAGAGGGGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNATTTN 120
CTNATGAGAA TATTGCTGGC CTGCTTTCC CTGGTAGGTA TTTGCCAGGC CCAATGCTTT 180
AACCTTAAGC TGATACTTTG CTTTAGATGT CAGTCTCGTT ACCAGCAGCC TTTTGACCCA 240
ACTACGGCGC TCTATATTTA AGTNGAGGGA TTTTNANCCA TTGTGCATGG NAAAAAGNTG 300

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TTCATGGGTA CNATNGTAAG NAAANNTAAA ANTTTTN

337

SEQ ID NO:6460

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07627

SEQUENCE DESCRIPTION:

GATCGGTTGN GNCATGGAGT GGGGGCTTCC AGGTGGACCT NCCCGGCACA CATTCCATTT 60
NTTGAGCCCC AGTCCTGCCC CCCACCCNAC CCTCCCTACC N 101

SEQ ID NO:6461

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07628

SEQUENCE DESCRIPTION:

GATCCTTCTT GGTTAGTATT ACTTGTNCCG GAGCAATTCT NATTCCTCGT TTAGACATTG 60
NNATTTCCTT CGTTGGAGCT GTGAGCAGCA GCACATTGGC CCTAATCCTG CCACCTTGG 120
TNGAAATNCT TACATTTN 138

SEQ ID NO:6462

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07629

SEQUENCE DESCRIPTION:

GATCTNATTA GNNTAGTAAT GTTTCCCTT TAAACAGATT CATCATTATC CCTAAAGTAT 60
TGCTGTATTA ATACTGTCTT CTAGAAAGTA TACACCAGTN CCTACTTTCC TCCGATATCA 120
TTAGCTGTTT TCNGAAACTN AATTTCCTCT TCAGAGATTN CTCATATGTN TN 172

SEQ ID NO:6463

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07630

SEQUENCE DESCRIPTION:

GATCCACAGA GTTCATAGGC ATGATTAAAT GGTAGTAGTT TTCCACCACG AAGTTTGGGA 60
ATAATTGTC ACAAGCAAT ANGGTAATTA GAAAAATAAC CTTTCAGAAG GAGACAGTTT 120
CTCCAAAGCT TGGGTACTTT CGCTTAATAT TAAANAGTGG ANGGAATTTT TTNCCTGCCA 180
GNCAAAAGGC AGNAGGTGTA TTTCTACACC ATGNTAGGC AANTNNTTTT TTNCCTAN 239

SEQ ID NO:6464

LENGTH:213

TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS07631

SEQUENCE DESCRIPTION:

GATCTGCATT TAGCAATGTG ATGTCAGTAA ATGGACATAA CAGGATTGTT GTAAAGGTTG 60
GGCATGATGT ATGCAAAGTA CTGGCCAGGG TAGACTAATA ACTGATGGCA TTTATATGCT 120
GTGCTGGAAT ATTGTTACCA AGCTGATGTG CCGTTCTCAC CCNGGGNGAA TACTGGTTTT 180
GTCATTTTCAT AAATGATATT TTTATAANTA AAA 213

SEQ ID NO:6465

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07632

SEQUENCE DESCRIPTION:

GATCTGGCCA AGAATGAGGC CCTCCCAACA CTTTCACTCC CTCTCCAAGC CTTGATGGGA 60
CCTCCACTTA TTTAGGCCTN ATGTGCTTTG AAGAAGCTTT GAGAGCCAAT NTGTCTTCCA 120
CGGGTCTCTT TTTTGCTACA AGTAATCAGC CCCATGTNTT CTCTTAAACT GAGAATTGCA 180
CCGGGGGCAA TTCCTGTTTT CTAAGGTGGT CTCTGCTGCT ATTTAACAAC CCAGAGTAGG 240
CCTCTGTNAG GCTTCAGTGG CCTCAGAAAC CAGAGGGTCC AGATAGGGGG CCTGCTTGGG 300
CCCTCTGCTG NCAAACTGCT TAAAANTTN 329

SEQ ID NO:6466

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07633

SEQUENCE DESCRIPTION:

GATCCACGTG TGTGGCCATA TTGTAACACA TTTTCTGCA AATNACCTCT TTCATTTAAC 60
AGCCCTTATT CAATGGCCTT TTNCTTTTTC AGTAGTACAT ACACATCTGT GTCATTNGTT 120
GAATGACGNC ATGAATGTTT TGTAGATAAA ATATAATTAA ANGNTTTTAA GCATTCTCTNA 180
CTCATAGATA TTNATGTTAG CACCAAATTT GNTGTGCAAT GANCCTCCCT ANATAN 236

SEQ ID NO:6467

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07634

SEQUENCE DESCRIPTION:

GATCTATGCC TTAGTGTTGT TTTTNTGTG TGCTTTGATG TAAAAGCAAG AGTATTTGGA 60
GCAAGAAGCT GCAATGCGCC AAATACACAN TAGGCCTTTC NTTTATCATT CATACGACAT 120
TTCTGGTTTA GGTGTATGTA GTTGGGCCAT GTTACTTGTC CAGAGGAAGA GNCTAAAGAT 180
ATACGGNTAA TTTTNTAGTC CNTAATGCTG TTTTGNTTAC NTNCTNTCAN GGTTATTTN 239

SEQ ID NO:6468

LENGTH:82

01877

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07635

SEQUENCE DESCRIPTION:

GATCGAGCAA TTGCAATCCA GCCTGGGCAA CAGAGCGAGA CTCCATTTCA AAAAAAGAAT 60
CAATAAAAAT GTTAAAGCA AA 82

SEQ ID NO:6469

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07636

SEQUENCE DESCRIPTION:

GATCCGTAAG GCCATGACCA AGGAGGCCAT CCGAGAGCAC CAGATGGCCC GCACTGGCGG 60
CACGAGACAG ACCTGTTTAC CTGCGGCAAG TGCAGGAAAA AGAACTGCAC CTACACACAG 120
GTGCAGACCC GCAGCTCTGA TGAGCCCATG ACCACCTTTN TTGTCTGCAA CGAGTGTGGA 180
AACCGCTGGA AGTTCTGCTG ACCCCTTG TG TAGATGTGCT GCAGCCTTNG GCCTTCNCGG 240
GCCACGTTCT TCGTTGACAN AGGTTNTNTT GGGGNCCCCT AGGAAGGCGG TATGTNCCTN 300
GCCNTTNAAN CTTGNCTGGN TTGGATTGNA NCTTTTTTGN CCTTTTTN 348

SEQ ID NO:6470

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07637

SEQUENCE DESCRIPTION:

GATCGTGAAA TCTAAGGCTG CTTGATGTTT TGATGCTTGT NAATGCCGTC GTGCTCTGTG 60
ACTCCACGAA ACGCCAAGGA GCTTCTTCCG GACGNCTCCT CTTCTCTGT AACATACGTG 120
TGAATAGTCA AGGTTTAATT TTNCTTTAAT CTAATAAAGT CGAAGTGGGA CTNTTAAA 178

SEQ ID NO:6471

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07638

SEQUENCE DESCRIPTION:

GATCCAGCAC ACCTCCTCGG TTTTTTTTC AATAAAAGTT TAGAAAGAAA 50

SEQ ID NO:6472

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07639

SEQUENCE DESCRIPTION:

GATCTCTGTG AAACAAAATN AAGCAAGAAC GGAGACGCTG AATAGTTTTA TTTCTNTATT 60

AGAAACTGTG ATTGGAACAA TTGAAGAAAT AAAATCATAA CAGAGAAA

108

SEQ ID NO:6473

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07640

SEQUENCE DESCRIPTION:

GATCTGAAGA AAGCAGCAAT ATCTGTNACT AGAGAACATT CCCATGTTTT TAAACTCTTC 60
 ANTTCTTAGA TGCATTTAAN TTCTTAATGC AAATNACGTA GCAATTGAA AACTTCTCCG 120
 TATTACTNGT GTTAAAAATG TCTTGCTTTA AATACAANNC AAATGGTAAA GGGGATTATC 180
 TTTGGTTTAG ATGGTTAANT ATNATTNGN 210

SEQ ID NO:6474

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07641

SEQUENCE DESCRIPTION:

GATCAGCAGG ACTGTCTCCA GCACGGAGCT GACACTGTTC AGCTGCCTCA ACTGGTAGAC 60
 GCTCCCAAGA AGTCAGAGGC AGCNGTCGGG GCGGAGGTGT CCATNACCTC CCCAGGACAG 120
 AGCAAAAAGT TCTCCCTCAA GAACAGAAAC GTTTTACCNN CTATTGTATG ACCTTTGCTG 180
 AGGGTATGTC CTGCTCCTTT CCACCAGTGA TTTGTATTAA GNCAGCACTT ATATTGTACA 240
 ATACTTCAGN CTGTTTTTTT TAAATACATA AAACCTTATG TAAAAAACT CTATTANCAT 300
 GGGCAAA 307

SEQ ID NO:6475

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07642

SEQUENCE DESCRIPTION:

GATCACAGGT TAGGGGTTTC TCTAGATGGG GGTTCGAAA TTTGCAGTGT CTGCTCCTGG 60
 GAGGCAGCAC CAGAAAGGGC ACTGAAATGT ACTAGCTGGA TGTNACCCAG TCTTAATAAN 120
 CAGGTTTTCT AATCCAGAAA 140

SEQ ID NO:6476

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07643

SEQUENCE DESCRIPTION:

GATCAACTTT GTATATTCAC GTGTATTAAT ATATTGTGCA CTAAATGTTT TGCCCTTGTT 60
 TGCTATTATA TGGTCAAGGC ATTTATCAGC ACTATTGTAA TGAATCATG TAAGTGGCAT 120
 GGGTCAGGGA AAATTATTC CTACTTTNCT GCCTAATTAA ATTNCTGTTT TCCAGTATTA 180

CATTAAA

187

SEQ ID NO:6477

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07644

SEQUENCE DESCRIPTION:

GATCTTGAT ATTTNATTTT TAAAAACTA GAATAACAG AGAGGCATAA NCATATCTTA 60
GAGTCCAAGT GGTAGTGTTC AGCATTGGAT ATAATAAATG GATGTTTAC AAA 113

SEQ ID NO:6478

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07645

SEQUENCE DESCRIPTION:

GATCTCATT TGGGCTAAAA TAAGACAATA TTCAAAGGTC AGAGATATCT AGCCAGAATC 60
TNATGGAGGC TGGATTTTTCAG ATTTTNTNAC AGAATTAGAC AGAGGAACAC AGAGGGGACA 120
GGCTCAGTTA GGGTGGAGGT GTGGGGTAGG GAAGCAGGNC TTGATATAAN TNATTGGAAT 180
CATTGTCTTT TAANCCAGTG GTTTATGTCA GGGTATAGCG TTTCANGGGA TTTGAGGGTC 240
AGATGGGGNA ATGTAGCCTC TTATTTTGCC AGTGTN 276

SEQ ID NO:6479

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07646

SEQUENCE DESCRIPTION:

GATCTGTAC TGTNTCCCGT CACGCCTTGA TGGGACCGTC TAGTTGCTGG AAAACAACT 60
CAGGGCTCCC ACTGATTCTA CATTATGGTG TGTTGTACAA TTATTCATT ATATATNACA 120
AGGTAATANT AATAGANATA AAATCCACAG TAANTGCAAA 160

SEQ ID NO:6480

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07647

SEQUENCE DESCRIPTION:

GATCATAAGT NTAGGACCA AAGGTGTTTT TAATGAGATA ATCTTTTNA TTTNNTAACA 60
AGAAAGGAAA TATTCACTTT ACATTTTAAC ATCAACTTTT AAGTGATATT CAGANTTAAT 120
TGACCATGGT GATACGTTGT AAAANGTTTN CATATTAN 158

SEQ ID NO:6481

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07648

SEQUENCE DESCRIPTION:

GATCCAAAAA AAAAAAAAAAC GAANANAATT NATCCTCACA AATTGGTGTT CTAAATATCT 60
TAAGANCCTA ATTAATAGC TGA CTACAAA AAAAAAAAAA AAAATNCAAA AN 112

SEQ ID NO:6482

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07649

SEQUENCE DESCRIPTION:

GATCCTGTGT GCGCGGTGTT TGCATCTTCA GTGGCCACAA GCATAATAAA GCCCCTTGC 60
CTTTCTCTGT ATTATATTCA ATACAATACA TCAATAGTCT TGA AA 105

SEQ ID NO:6483

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07650

SEQUENCE DESCRIPTION:

GATCAGATTT AAAGNCTGGA TTCTATCTAC ATAAGTCCTT TNAATTCCAC CAGGGCCAGA 60
GCAGCTCCAC CACTGTGCAC TTAGCCATGA TGGCAACAGA AACCAAGAGA CACAATTACG 120
CAGGTATTTA GAAGCAGNGG GNCAACCAGA AGGCCCTTAA CTNTACCAG TGCATCACAT 180
CTGCACACTC TCTTCTCCAT TCCCTAGCAG GGGNGGCTAG CTCATTNAC NGGGTNNAGA 240
ANCTGAGGNC CN 252

SEQ ID NO:6484

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07651

SEQUENCE DESCRIPTION:

GATCACGNGT AAAGAGAACT GTTCCTGCC CTAAA 36

SEQ ID NO:6485

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07652

SEQUENCE DESCRIPTION:

GATCAGCCTC ATCAATATTG CCGTCATCTG TTAACTCTC CCAGTATATT TCCTCAATGT 60
CTGTTTACTT AAAATTTTGT GGAGTGACAT AATTAATAAG NAATAAAGTC TGAATTATAC 120
ACAAA 125

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SEQ ID NO:6486

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07653

SEQUENCE DESCRIPTION:

GATCCACACT GGGGNGAAGC CTTATNAGTG TACGANATGT GGAAGAGCT TCAGTCAGCA 60
TGCGGGCCTC ANCTCCCACC AGAGACTCCA CACCGNGAG AAGCCATATA AGTGTAAAGN 120
GTGTGGGN 128

SEQ ID NO:6487

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07655

SEQUENCE DESCRIPTION:

GATCCAGAGA GCTTCCTGAA GGACCTGTTG AACTCAGTCC CCTGACCACC ACACAGCAGC 60
TGCGGGCGCG AAGAGAAGCT GGCTTGCCTT CCACCCCTCG TTCTCCCTCC TTGTGCATTA 120
AGTTCCCTCC GNGGGATGCT GCATTGGTAC CCAGCCCTCC NCTATCTCAT TTTTCTTGGN 180
GTGGCTTGGG GTTTTtaggc TTCCNGTTT ATCTCGTGTG TGTGGTGCAC CAGCTATGAG 240
GTTGTCTGTA ANCAAGCCA TCAAAGGNC TNTAAATANC TAGGNGCCAT GAGTNGTCCC 300
GGNCANCTTT CANAACTTGA GTNTGANAN 329

SEQ ID NO:6488

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07656

SEQUENCE DESCRIPTION:

GATCTGTACT GTAATTTTGT TTGTAATCCT GTATATNATG GTGTAATGCA CAATTTAGAA 60
AACATTCATC CAGTTGCAAT AAAATAGTAT TGAAAGTGAA A 101

SEQ ID NO:6489

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07657

SEQUENCE DESCRIPTION:

GATCATGTAT ATAATTGTAA CATCACATTG ATTTTACGGA AGATGTTATA TGGNCTTTAA 60
TGACACAATG TTTAGNGATA AAATGTACAT TATTTTGTT CAGTTTTTA AAAAANNTAT 120
GCTTTAACAA AATTCTTAGG AATNCTTTA AGCAATGCAG GTATTGCGAT ANCTGTAGNT 180
TTTACAATAA TGTTACTCTA CAGNTGGGAN AATNN 215

SEQ ID NO:6490

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LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07658

SEQUENCE DESCRIPTION:

GATCTCTTTG TATTCTCTTC AAGCCCAAAC CAATTCTGTN CCTTCAATCT AAATAGTGGT 60
AATATGAATG TTAAAGAAAT GAAATAAGAA ACATGTGCAG GCACTTTGGA AGGTGCTAAG 120
TGA CTGCCCT AAGGAATGAA AAGCAAGGGC CAGGTGGGAG TAGCCAGCG AAGGCACTTG 180
GGCTGCCAGG AACAGGNGGC GTGGGAAACT CTGGCTTAGG NAAACATGAA CACNGGGGCA 240
ACAGCGGCAN ACTGTTGTTC GAGTTAAATC TAANTCTCAG GCTCTTTNAC GGTAANGGG 300
TTANGGATAC TCCATTNNGA TGAAGANAAG NGTGAGGCTG ANNGTAANGC ACATGGCAGN 360
TNNN 364

SEQ ID NO:6491

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07659

SEQUENCE DESCRIPTION:

GATCTTTCTT CTCCTTTAAG CTCTTTGTTA ACATTTCTCT AGACGCAATT TATTGAAAAT 60
AAAGATTNC TGTTTACTCA TGAAA 85

SEQ ID NO:6492

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07660

SEQUENCE DESCRIPTION:

GATCCTCATT TATGTTTGTG GTTGGAAGC AAAGCTAGGT AGCCATTCTT TCTGTTCTAC 60
CAAGTTATAA TAGCATT CAT TTCCCTTTAT ATTTCCCTGA AATAAGCAC ATTCCACTTA 120
AA 122

SEQ ID NO:6493

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07661

SEQUENCE DESCRIPTION:

GATCCTACAT TAAGTCATT TGTNAGAATG ATGTTTGTGT TTGTNTAGAG TTGGCTGACC 60
TCCAACNT GGGGTCAAGG AATCCTACTG CCTNAGCTTC CCAAATAGCT AGGACTATAG 120
GCATGCACCC GGCCATGTGT TTTATTTATA GCTCTTAAAG CCCAGATGAA GAAATCACAT 180
TTTTNCCCAT AGTGAAGAAA CATTGGCCA TTGCTTAGTC CTTNNGGGGG GTGNGTGTCC 240
TGTTTTTATT AGATTAGNGA GACCCTGTGT GGGCCACAGT TAATATANNC CATTATCACT 300
TTTAAGGTAA CCTGCACATC TTAGGTTTCA TAATTNCCTT ATTGTTCTNG NCTCAAANTT 360
GN 362

01883

SEQ ID NO:6494

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07663

SEQUENCE DESCRIPTION:

GATCGGGGCA CTGCAGGGGC CGAGCCATTT TGGGGGGCCC CCCTCCTTGC TCTGCAGGCA 60
 CCTTAGTGGC TTTTTCCTC CTGTGTACAG GGAAGAGAGG GGTACATTTC CCTGTNCTGA 120
 CGGAAGCCAA CTTGGCTTTC CCGGACTGCA AGCAGGGCTC TGCCCANAGG CCTCTCTCTC 180
 CGTCGTGGGA GAGAGACGTG TACATAGTGT AGGTCAGCGT GCTTAGCCTC CTNACCTGAG 240
 GCTCCTGTGC TACTTTGCCT TTTGCANACT TTATTTTCAT AGATTGAGAA GTTTNTTACA 300
 GAGANTTAAA AATGNAATTA TTTNTAAA 328

SEQ ID NO:6495

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07664

SEQUENCE DESCRIPTION:

GATCCTGTTT CTACCAACAC TGCACCTTAT CCCAGGAACC TGCCCTAGAC CTCCAGAGAC 60
 CATATTTNNT CTCCTCCAT TTCTACCCAG ACCTCCAGGC CTCCTTCTGG AATNATAGAA 120
 CCGTAGAATT GGAAGGAATT TNAGAGGGGN TCTAGTTGGA GTTGTGTCCA ACAGAATTCA 180
 TTAACACCAG CTTGGGCTTG TTTTTCCTCC TCCCTCTGGA CTTTTTAAT CTTTCCTCC 240
 ACCTCAAAAA ATACTTACAC ACAGATTCTT CTTGTACAGG CATCAAAACC AACTNCTNTG 300
 CCCCTAAGGC TGTGTNNGNG TGGTNTCCAG NNANCCNTAC CNCAGTCANT N 351

SEQ ID NO:6496

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07665

SEQUENCE DESCRIPTION:

GATCTGGTAG GGGAGAAATG GCGAATGTAA TACACATGAN ATGGTATATC CTTGCAATGT 60
 ACAGTATCAG AAGGTGGTTT GACAGCATCA TAAACAGGCT GACTGGCAGG AATGAAAACA 120
 AA 122

SEQ ID NO:6497

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07666

SEQUENCE DESCRIPTION:

GATCANTTGC AAACCTCCCC CAGCCCCTAC CATCCAATNT GGACGGAAAA CANGAACTGC 60
 CTGAAGAAGA GTCCAAGCTA CAGATACACA GCGTGTGCAT TGCGGCTGTC ACCTTCCTNC 120

TNCCAATTCT GTATCCTCAG AGATGCTGCG TGGATGTTTC CTTANCCTCA GCTGACTTCC 180
CTGTGAATNT CTAATGCTAG TTCANGGGCC TNCNGGAAAT TGANTTN 227

SEQ ID NO:6498

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07667

SEQUENCE DESCRIPTION:

GATCTTGCCC TTCTCACTCC AGAGGCTAGT GGTCACAGAC AGCTGGGAAT GGCAGCCACA 60
GAGGGTCCCC TCTGGGAGAA ACAGCTTCAC CCCAGCCTCA GGGCCCTGGG CCATCACTGC 120
AGTGGCCCTG GGAGGTGAGG AAGAAGCTGG CTAGAGGAGG GGGCTCCAC CTACCTTTTA 180
TTTAAGCCAG TATTCTTTGT TCCTGCTTGT AATAAACTT CAGTTTATAA GAGTTAAA 238

SEQ ID NO:6499

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07668

SEQUENCE DESCRIPTION:

GATCTGTCAT AACTCATTTT AAAGTGTGAA ATATGCCATA TGAAGAGGGN TTAAGAGGCT 60
GNGAACTCA TATTTCAACC AAATCCAGCA TTAGTTTTTC TTAGGTCTAA TANTTCCTNG 120
TTAATAAAGA TTAAATGCA AA 142

SEQ ID NO:6500

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07669

SEQUENCE DESCRIPTION:

GATCTGTCAT TGTCTCCCAT CACCCCCAAA TGGGCCCTC TCGTTGCAGG AAAACAAGCT 60
CAGGGCTCCC ACAGTTTCTA CATTATGGTG AGTTGTATAA TTNTTTCATT ATATATTACA 120
ATGTAATAAT AATAGAAATA ANGTACACAA TNNNTGTAAA 160

SEQ ID NO:6501

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07670

SEQUENCE DESCRIPTION:

GATCTGCCCG AGACTCCCAG AGGGTAATGC CACTCCCACA ATCTCAGGCC TGGTACCCAT 60
CCTNTTCCA CTGTGAGCAG AGCCAGAAGG TAGGTCTNTT CAGAGTCTGT NNCCCTGGAC 120
CTGGGGNGTG GATATGANAT GGGATATCTC CTTCCATTCC CCGNTCCAGG GGAGAGTCAC 180
TAGTTGTACC CTACTCCATT AGGTCCCAAA TAGGGGCCCA ATTTACCTG TATNAGGNTC 240
TGTGCATNCC AGCTGCCNNA AATNTN 266

SEQ ID NO:6502

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07671

SEQUENCE DESCRIPTION:

GATCCAGACT TAGGGACGAG GCTGTCACTG GTGGGCACCC TCTGTCCTG TTTGTGTGT 60
TGAATAGTCT GAAATNCTGT GACTTTTTTT GTGTGAATAA AGNTATGAAA CTCTGAAA 119

SEQ ID NO:6503

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07672

SEQUENCE DESCRIPTION:

GATCTTCGTG TGAGCCGCGN CGTCCGNCN GACCGAGCTG CCTTCGCGTG CCCCCGNCCT 60
GTGTTTATA AAAAGAAAGA TTCTCGGAAA 90

SEQ ID NO:6504

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07673

SEQUENCE DESCRIPTION:

GATCTGTCAG TGTATCAAAA CAACATAAAT AAAGTTGAAC AACTGATACG CAAAAAACA 60
AA 62

SEQ ID NO:6505

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07674

SEQUENCE DESCRIPTION:

GATCAAGTTT GGTCAAGTTT TGTCACCAAG CTTTGTAAT AACTGGTTT TCATAGCTTT 60
TTGGAGATGA AA 72

SEQ ID NO:6506

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07675

SEQUENCE DESCRIPTION:

GATCTTTTTT CAGAATGTTG GAAAATCCTG TAAATGCAAA TAGTCAATAC TGTATTAAAT 60
ACGTGCACCT GGNGTNTGCT TCGCTTGAC AGTTGTAAAT AATCAGAACA TATGNAAAAG 120

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GTACCCTACA GAGGAAATTC TGATACAGAT TATTGCTATA TTATAACCTN TTGCTGTTGA 180
GCGGGCTGTA GGTAACTAA TGTGTGGTT TGACTATTAA A 221

SEQ ID NO:6507

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07676

SEQUENCE DESCRIPTION:

GATCTTCATT TTTGTAATAA AACGGNAGAC TCATCCAGTA AA 42

SEQ ID NO:6508

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07677

SEQUENCE DESCRIPTION:

GATCTTAGAC TTCCCATCCT CTAGAACTGT GAGAAATAAA TTCCTGTTGT TTATGAGCCA 60
AA 62

SEQ ID NO:6509

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07678

SEQUENCE DESCRIPTION:

GATCTGCCAT CTAGAACTCA TATTCTAAAG GGCAGTGNTT TCTCAGAAAC GTGATGTTCT 60
GGAATATGTA TTATTTATTT TAACACTTTT TTAATAAANT CTTTATTATA AACCAAA 117

SEQ ID NO:6510

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07679

SEQUENCE DESCRIPTION:

GATCTGTTTA AAAGATTAAA TCTCAAGTTA ATTAAAAATA AGCTTTTCAA AAATGTATTA 60
TATTTATAAC AAATATACTG TAAATAGANT AAAGACATGC TATTCAGTGT AAA 113

SEQ ID NO:6511

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07680

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTCTCCCAT CACCCTAAGA TGGGNCCTGTC TAGTTGCAGG GAAAGAAGCT 60

01887

CAGGGCTCCC ACTGATTCTA CATTATGGTG ANTNGTAGNA TTATTTTATT ATATATTACA 120
ATGTCAATAA TAGAAATAAN GTGTGCANTA AATGTCAAA 159

SEQ ID NO:6512

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07681

SEQUENCE DESCRIPTION:

GATCAGCCGG AAGAGAAAAT NAAGACCCCA GAGACATTTA TTGGGGAGTA GGATGTGGCT 60
GAGTGCTTTT TTTTGGCCA GACTAGCGGA TTCAGTCCTG GAAGAGAGTA TCATATAATG 120
AGNCCCACAG GCACTGGCAC CCTTGGGTG GNAATAGANG NNGNCCATGG ANTGGCGAAA 180
ACCAGGGATT CCAGCTGGGG NATAGTANCT TGAAGGTGN 219

SEQ ID NO:6513

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07682

SEQUENCE DESCRIPTION:

GATCTTGACC TACAGTTTGA AAAACAGAGT ACTGAAGAGT CTTGTTTCCT TTATTTAGAA 60
CAGTGCAAGG ATGAGTATCT GGGTAGAGTT GTGCGTTGTA CATAACCTTT GATAGTCATA 120
TAGTTGAACC AAAAGCAANN TCTGTAGTGN CATTGAAAAA ACATTTTGAC TTGATTATC 180
CTGNCAGNNT NCNNTAATTT TTGGCTGGCT AATNCAN 217

SEQ ID NO:6514

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07683

SEQUENCE DESCRIPTION:

GATCTCTGCT CACGTTGCCT CCCTTCATCT TCCTGCATAA GTGGAAGCAG CCTGAAGCCC 60
TCACTGTTTC TTGTACAGCC TGCAGAGCCG TGAGCCAAAT AAAGCTCTTT TCTTTTAA 119

SEQ ID NO:6515

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07684

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAGC ATCTGGCATT TCCCCTGCTT GCACTCACTC TGTCCTGGTG 60
CGCTGTGAAG AAGGTGCCTG CTTCTCCTTT GCCTTCCACC ATGATTGTAA GTTTCCTGAG 120
GCCTCCCTGG CAATGCAGAA CTGTGAGTCA ATTAACTTC TTTCTTTAT AAA 173

SEQ ID NO:6516

2153480

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07686

SEQUENCE DESCRIPTION:

GATCACCATG TNAGCCTTAG ACCAAGAAGC TGGCTAGTCC TTNCTGTGAA GCTAATACAA 60
TNGNCATTTC CAGACAAATT TAAAGGNAAC ACTAAGGCTG CTTCAAAGAT TATCTGATTG 120
CTTTAAAATA TATGTCTATA TACACAGGCA TGCTCTTTT TTAAGTGCTT ACATTTTAAT 180
AGAGATGANT CAGTTTTNGA ATCTANGCTG TTTGCCCAAG NTGANGCTNC CAGGGTTN 238

SEQ ID NO:6517

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07687

SEQUENCE DESCRIPTION:

GATCTGTTTT TNACCACTTC ACTGAAAGAC ACCATTATC TACCCAAGGG CAGAAAGTAG 60
AACTTACTAT TCATTAAATG TTGACACAA TTGGAATTGT CTTTAATTTC TGTCAGAATG 120
CTATTGAAA TGTGAATTGC ATGACTTGGT AGCATATTCT TTTCTGCAA AAATAGGCCA 180
TATTAACCAT GCTTATGACC ANTGCCTGT GCTACTGGCT TTTGGNAAAA ATGGTTGCN 240
TCAGNTTGGG GAAGTAATNA AAGGANTNCA CCTGGNGNCC CNNGAATAN 289

SEQ ID NO:6518

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07688

SEQUENCE DESCRIPTION:

GATCCCCCAG GATTCTATTN TGTTTAATGG GCTTTTCTAC TAAAAGCATA AAATACTGAG 60
GCTGATTTAG TCAGGGCAAA ACCATNNACT TTACATATTC GTTTTCAATA CTTGCTGTTC 120
ATGTTACACA AGCTTCTTAC GGTTTTCTTG TAACAATAAA TTTTTGNGT AAATANTGGG 180
TACATTNTAA CAAACTCNGT AGTNCAACCT AAACNGTAT NAACGGTGTG TAAAN 236

SEQ ID NO:6519

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07689

SEQUENCE DESCRIPTION:

GATCAGGTCT GCTTTNAGTT TCATTTTGT TTCTTTCCCG TCCCACTCTT TAAAACTGG 60
TTCCGTGAGA AANGGCAGAA GCCGTTCCGT GTCTCTTGCA GGCTGGGCCG NCTTCATGNA 120
GTNCGAGGGC GTNCCGTGAC NACGTACATA CGTATGN 157

SEQ ID NO:6520

LENGTH:195

01889

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07690

SEQUENCE DESCRIPTION:

GATCTTTCTG GATATAATGA AGCTTCCTGG AGAAACAGAC TGGCAATCAG AAAGATTGG 60
 CTGCTTCCGA CACCTCCATC TTGGGCCTGC AGAGGCTGCA GCAATCTGTG AGGCAGCCGA 120
 ATCTGCGNGG CAGNCCACTC TTCTAGGACA TATGGGTTTC ANNAGGCACC NTTTTGCTAN 180
 GNAGGCATAN TTANN 195

SEQ ID NO:6521

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07691

SEQUENCE DESCRIPTION:

GATCGAAACC AAGTTATTAT TATCCTTACT GTATTCCATT GCTTGTATCA AAATCTACTT 60
 TTTTNTAGT AGGAAACTAT GCATTCCCTA TCAGTCCCTT TGATTATCAG GAATGTATAA 120
 GAATTGTGAT AAAATAGGCC AATATGCTAT TTGGTACCAT TTGTATGTAT TTTANGTGCA 180
 TAACCTAGGT AAAATAAGNN TAGTTTCTAT GTGTAAAGAA GCAAGTTTA CAGTATGCAG 240
 ACTCCAGTGG ATGTATTTTA GGCTGTATAC ATNTTTAAGC TCTNTNTGGT ANATAGGGTA 300
 TACAAACTAN NTGCCTCNA ATNCNAATAN NTTCCGN 337

SEQ ID NO:6522

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07692

SEQUENCE DESCRIPTION:

GATCATTTCA TGGAACTTT GAAGTATCTT TGA CTCTAAC TTGACTTGG TGGTGGACCT 60
 TCCTTGGTTT TANTAACACC TAAGAGATAT CCTTTAGAAT TACATGTATT TTAGCATAAG 120
 GAAATTGNAA AAGTAAACA TACTGGTTT TTTCAACAAG ACCATATGTA AATTAAATAG 180
 TGAAATGTGT ATNGTTTCA GTAGAACTGT ACCATCAACA ATGTTTCCAT AAATATGCAG 240
 NGTTCTTCT NNTGTATTGT TATTTACAAT ATTGTTAAAT NGGATGCATT TGCAATNNCT 300
 CGGNTTCTAA AGNATTGNGG TNCNGANCGT N 331

SEQ ID NO:6523

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07693

SEQUENCE DESCRIPTION:

GATCTGGAAT GGTGTTTTGG TTTGGGGGGA ATTTTTTTTT TTCCCGGCA AATNACATGT 60
 GTTGTGATG TGAGTATCTG ATGAAAAANC AATGNCAGAA TANCCGN 107

SEQ ID NO:6524

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07694

SEQUENCE DESCRIPTION:

GATCTATATA TGTATAAATA TGTATTTTGT CAAATTTGTN ACTTAAATAT ATAGAGACCA 60
 GTTNTCTCTG GAAGTTTGT TAAATGACAG ANGCGTATAT GANTTCAAGA AAATTTAAGC 120
 TGCAAAANTG TATTTCTAT AAANTGAGNA GTCTCACTGN TAGCGGTTCT TTATTGCTCA 180
 TTTTTTAAAA ANTGGN 196

SEQ ID NO:6525

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07695

SEQUENCE DESCRIPTION:

GATCGGCTCT AGAAACACTG CTTTCCCTTC TTTNCTTTTG TTTTCTTTCT NTTATTATTT 60
 TTTTAAAGAG TAAACGAAAG TNCTGTATGA ATTCGGACCC AGGCAGCAAC CACAGGNCTN 120
 GGGGTGAGAC CCTCCTCCTC CCAAGNGAGC AAAAAGGACC CATGGCCCCC AAAAAAACCC 180
 CTCAACGAGA ATCCTCAGCN TTGTAAAATG CAAAANTGTC TAATGAATAT TTNTATNTGT 240
 NCCATTTTGT ATAANTN 257

SEQ ID NO:6526

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07696

SEQUENCE DESCRIPTION:

GATCCTATTT AACATGACAA GTAAAATGCT TGCCATAGGA TATTTATATC TAGAACTTTG 60
 ACAGACATAC CTAATCATTG TCACTCAGGC ATCCTGCATA TCATTCATTT ATTCATTTGC 120
 CTATCATTTG TTGANCATTT AAAATGTCCT AGATACTTAG NATATGANTG TTGAATGTCA 180
 CAAAACCTGAA TGTCACACTC CCTCCCCTTT AGANATTTNC AGCATGGGAT GCGAGCTAAT 240
 GATATGTAAA TAANTACATA TTTNTAANTA ACACAACCNN AAAANAANAN AAACNAN 297

SEQ ID NO:6527

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07697

SEQUENCE DESCRIPTION:

GATCGTGGCC AACGTGGACC TGCCTACGNA GGGTGGGCTC TGACCCAAGT GGGGCCTCCT 60
 TGTCCAGGTC TCACTGCTTT NCACCGTGGT CAGNGGGACT NTCAGCTGAG CTTNAGCTCC 120
 CATGGAGCCA GCAGGNN 137

SEQ ID NO:6528

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07698

SEQUENCE DESCRIPTION:

```
GATCAGCCTG AGAAGCCACT CAACTTGGCT CACATCGTGC CTCCCAGACC TGTAACCAGC 60
ATGAACGACA CCCNTGTTCT CCCACTCTGT TCCCTCCTCA GGAAGTCCTT TTATTACCAG 120
GAGCTCGGAC GGTGCTTTTG GTGGNTGCGT CTAGATGGAT AACATGACTT CTTCTACCCT 180
AAAAATATCC TATAATACTT TNAGCTGTTT TGGTTCCTCC AGGGTGNATG GTACCNATTA 240
ACCCAAAATA CTGNTTATNT ACCCNTTNTT ACNATNTANN AGTCANTTTT GGN 293
```

SEQ ID NO:6529

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07699

SEQUENCE DESCRIPTION:

```
GATCCACGGG GCCAGGCCAC CCTGCGGGAG CGCCACACGC ATCCACTTCG GATTCAGTGG 60
GTGAAGACAG AACGCTNAGA GTCTGCAGGC GGCTCCTGTG CTTTAAATTT CTGGCTCTTC 120
GGATGTCTTC TAGACATTTA CTATCACTGC ACCTGAAGAA AAAATCACTT TTACCTTCCT 180
AATTTAAAAA GACAAAACAG AAATGTACGT TCCTTCGCTA GCTTTAGTCT TTCTGTTCCC 240
ATTTTNATAA ANTCTGAGGC ATTGATAATG NTCNNATCTA AAATTGTAC AGTGTGATTT 300
CNNTNNTAAG NGTTAAANCT TTTANTAAAA GGGGCANGAN NTNAN 345
```

SEQ ID NO:6530

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07700

SEQUENCE DESCRIPTION:

```
GATCCAGAAA ATAGGTACGG TTTTAAAATA TTTNATATAG AAAAGCTACA AAGTAAATTG 60
AGCAATGCTT TAAAGTTAT CTTTGTTTTA TAGACTTTTT TGTGTATGT ATTACAGTCT 120
TTATAATCTT ATTTAATGNA TATNTGTACT TTCAAGTACT GATGGAGATA GNCTCAAAAC 180
AGTTATTTTN TTACAATTAA TCTACAANGG GCATTANTAT TGTNGNCTTT TAAAACATCT 240
GCTGGNTATC TNATNTGCAA TTCNTN 266
```

SEQ ID NO:6531

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07701

SEQUENCE DESCRIPTION:

```
GATCCCACAC ACTAAATATA TGGTTGTTTT GCCACCTTTT AAA 43
```

SEQ ID NO:6532

2153480

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07702

SEQUENCE DESCRIPTION:

GATCTGTTTT TCACCACTTC ACTGAAAGAC ACCATTTATC TACCCAAGGG CAGAAAGTAG 60
AACTTACTAT TCATTAAATG TTGACACAA TTGGAATTGT CTTTAATTC TGTCAGAATG 120
CTATTGAAAA TGTGAATTGC ATGACTTGTA GCATATTCTT TTCTGCAAAA TAGCCATATT 180
ANCATGCTTA TGACAATGAC TGTGCTACTG TCTNTGGAAA ANTGTTTGTC TCAGTTGGNA 240
ATNCTAANNG NTTCACTGC GGANNAACG CCCNNNCCN CCCAN 285

SEQ ID NO:6533

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07703

SEQUENCE DESCRIPTION:

GATCCTCTTG TGTATATGCA AATAAACCTA TTATCACTT AAA 43

SEQ ID NO:6534

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07704

SEQUENCE DESCRIPTION:

GATCAAGACA CCTTTTATTA ATAAAGAAGN GACACAGGTG TAGATATGTA TATACAAAAA 60
GATGTACGGT CTGGCCAAAC CACCTTCCCA GCCTTTATGC AAAAAAAGGG GAGANTCAAA 120
GCTTTCATTT CAGAAGTGTT GCGTGGANAA GTATCTGTAA TTAAAGTTTC GANGTAATTT 180
AACCTATTTT TAAA 194

SEQ ID NO:6535

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07705

SEQUENCE DESCRIPTION:

GATCAAGCCC TGCTTAAAGT TAAATAAAAT AGAATGNATG ATAAA 45

SEQ ID NO:6536

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07708

SEQUENCE DESCRIPTION:

GATCTTCTGG ATGACCTGAA ATNAGAACTA ATTGGAAA 38

01893

SEQ ID NO:6537

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07709

SEQUENCE DESCRIPTION:

GATCGCCCAA CTGCACTCCA GCCTGGNAGC AAGACTCTGT CTCGAAAAGA AA 52

SEQ ID NO:6538

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07710

SEQUENCE DESCRIPTION:

GATCAGNACC ACTGCACTCC AGCCTGGGCA ATCANAGTAC GACTCCTGGC TCAAA 55

SEQ ID NO:6539

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07711

SEQUENCE DESCRIPTION:

GATCAGTCTG AAGTCGATTA CTAACAGCTG AAGCTGATAA AACCATTAAA GTATACAGAG 60
 AGGATGACAC AGCCACAGAA GAAACTCATC CAGTCAGCTG GAAACCAGAA ATTATCAAGA 120
 GAAAGAGATT TTAATGAATG TGGAATTTTT TCTCTCTCTT TTTTTCCTT TTTAATTAAA 180
 AAAAAAAGG CTTGGGGTTC ATGGGGTTTT CCNGTCATT NGTGCNCTGG CTGGGATTTT 240
 AAGGGGGAAT TN 252

SEQ ID NO:6540

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07712

SEQUENCE DESCRIPTION:

GATCGAGNCA CTACACTCCA GNCCGCCGAA GCAAGACTCT GTCTCAAA 48

SEQ ID NO:6541

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07713

SEQUENCE DESCRIPTION:

GATCANACAT TTNCTACCTA TGAATNTTGC TGCATACAGA AAGTGCCCTT TCCTCAGGAA 60
 GTTGCTGTGT NTCATTCTT TAGATGGNCT CTTATCTAGA ATACATAGCA GCTCTGCAAA 120

2153480

GAANCAGTTT TAAAAATGG GAACTTCTAC ATTGAAAAGT CCCNTTTTT GTGCCAACTA 180
TGATTAGTGN GCGGAAGNAN TCTTATTCTA TGGCATATGT ATGGANGGGG GGGGN 235

SEQ ID NO:6542

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07714

SEQUENCE DESCRIPTION:

GATCCTTTTA AATTAAAGC AAGTCCTAAA ATGAAA 36

SEQ ID NO:6543

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07715

SEQUENCE DESCRIPTION:

GATCCAGCGN GCGCAGCAG AGTACCTGCA CAAGGCCGTC TTCAGGGGCC TNCTCACGGA 60
GAAGNCGGCG CCCGTNATGA ACGTCATCCA CAGCATCTTC AGCCTCGTGC TCAAGTTCCG 120
CAGCCAGCTN ATCTCCCAGG CCTGGGGGCC CCNNN 155

SEQ ID NO:6544

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07716

SEQUENCE DESCRIPTION:

GATCAAATAT CACTCTCCTA CTTACAGGAC TCAACATACT AGTCACAGCC CCTATAACTC 60
CCNCTTACAA TANNTANCCA CAACCAAAAT GGGGCTCANT CACCCAACCN 110

SEQ ID NO:6545

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07717

SEQUENCE DESCRIPTION:

GATCTGGTTG TNTAGAAGCA TGCAGCACCT CCTGCTTCAC TCTCTCTGTC TCTCCTGCTC 60
CACCATGGCC AGAAACGTGC CTGCTTCCCC TTCGCCTTCT GCCGTGATTG TAAGTTTCTT 120
GAGGGCTCCC CAGCCATGCT TCCTGTACAG CCTGCAAAAC TGTGAGTCAA TTAAACCTCT 180
TTTNTTCATA AA 192

SEQ ID NO:6546

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

01895

2153480

CLONE:HUMGS07718

SEQUENCE DESCRIPTION:

GATCATACTG GTTTGTTTCT TATTTTGATT GGAGAAAAAT NAAATTGCTG CATTTCGCAG 60
TGACCCATTT AAA 73

SEQ ID NO:6547

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07719

SEQUENCE DESCRIPTION:

GATCAAATGT GTGGCCTTTG ACTGAAATCA GCCAGCCCAT GGCCCCCAAT AAAGGCAGCT 60
GCCTACTNCT CCNTCTGAAA 80

SEQ ID NO:6548

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07720

SEQUENCE DESCRIPTION:

GATCCANATG CGTGTGGCAG CCNAAGGATT TGTGTAGGA GCAATGNCTG TTGGTATGGG 60
CTATTCCATG TATCGGGAAT TCTGGGNAAA ANCTAAGCCT TAGAAGAAGA GATGN 115

SEQ ID NO:6549

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07721

SEQUENCE DESCRIPTION:

GATCATAGCA TATCTACTAT TTTATTATTT GATTTTAAA ATTTAACATT ATATTATGGG 60
TAACCTTACA TGTCAATAAA CAATCCACA TTGTCAAA 98

SEQ ID NO:6550

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07722

SEQUENCE DESCRIPTION:

GATCAACTTT GGAATAAAGT GATGCCCTTC AAA 33

SEQ ID NO:6551

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07723

01896

SEQUENCE DESCRIPTION:

GATCCACTGT AATATTTAAT AAAAAATGTT ACTATCTGTA AA

42

SEQ ID NO:6552

LENGTH:24

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07724

SEQUENCE DESCRIPTION:

GATCAAATAT CACTCTCCTA CAAA

24

SEQ ID NO:6553

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07725

SEQUENCE DESCRIPTION:

GATCACGACC CTNTCAGTG CACCCANTTA GNGTTGTGAG CCCTTAAAG GACCAGGGAT 60

TGCTCACTCG GGGAGCTCGG CTCTTGAGAC AGGAATCTTG CCCATTCCCC GAACGAATAA 120

ACCCCTTCCT TAACTCAGAA A 141

SEQ ID NO:6554

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07726

SEQUENCE DESCRIPTION:

GATCAGGCAG CAGGAGTGAG GGGCACAGTC ACCCCAGGCC TTGCTGAGCC CAGGTCTGGG 60

TACTGAGTGT CCAGAGCTGC CTCCCAGGA GGTTAAGGTG GGGGCAAAGG GGAAGCTTCA 120

AGCACTTTGC CTACTTTTGT TCACTNCCCA GTGCACTGTG ACTCAGGCCT TCCCATCAGG 180

CCTATTTGTC TACCCAATAA AGCGTGTTTT TTCCAGAAAC AAGAAA 226

SEQ ID NO:6555

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07727

SEQUENCE DESCRIPTION:

GATCAGCCTG GCCATGGTNA AACCCCATAT CTAGTAAAC TACAAA

46

SEQ ID NO:6556

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07729

SEQUENCE DESCRIPTION:

GATCCACTAT NAGGGTGGCA TCAGCCTGAA TTGAACATCC TATATCTNAA CATCTGCATA 60
 AATTCCAGGT GACCACCAGT GTGCACCACT CACCCATCCC AGTGTATTCA GGCCNNNTGA 120
 CCTGACCCAN TTTGGCCAG AGGACTCTGC TGGTGACCTG AAAAGAGGGA CTACATATTT 180
 NAGGATATTG TTGGTCTCAC ATGACTCTTG ATAGAGTTTG CCAGCCTTCA AATCACCAAC 240
 TGTGGGAACC AAGNNGGNNN TTATTGCCTT GCTGTGTTCA ATTACANAAA ACGNTGGAAA 300
 NGGCTN 306

SEQ ID NO:6557

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07731

SEQUENCE DESCRIPTION:

GATCTGAATA CCCCTTCTCT GTAGCTGCTA GTGAGCCTTC CCATTAGAT TAAAGATTGC 60
 TTTATCCAGC AGTCAATTAA CTCTCCAGTT ATCAGTACTC CCACAATTGG CCAGGGCAAC 120
 AATAATTGGA GTTCATACTG ATGCCCTGAG GCACTGAAAA AAAAAAAAAAT TCCCAAGGNG 180
 CCTTNTGGGN TGNCTAAAGG TTNCATTGTG NTTGGNGGCT TTNGTGTTAG GTGTGCNGTT 240
 TANTTTCCTA NTTNN 255

SEQ ID NO:6558

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07734

SEQUENCE DESCRIPTION:

GATCACGNCA CTGCACTCTA GCCTGGGCGA CAGAGAGAGA GACTGTCTAA AAAAGGAAA 59

SEQ ID NO:6559

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07735

SEQUENCE DESCRIPTION:

GATCCTNAGG TCTCCTAGCC ATGTGGAGCT GTAAGTCCAA TNAAACTTCT TTTTCTTCCC 60
 AGTCTCAAA 69

SEQ ID NO:6560

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07736

SEQUENCE DESCRIPTION:

GATCTGTCAA GTCCAGTAGA GCTTCAAGGT AAAATNAAAA TAACAATGTG AAA 53

SEQ ID NO:6561

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07738

SEQUENCE DESCRIPTION:

GATCCAGAGG CCATGGAAGA GTCTCCAAGG AAA

33

SEQ ID NO:6562

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07739

SEQUENCE DESCRIPTION:

GATCAGCTCA AAAAGNTTTG GCTTAGNGTT TTCATTGCAA ATNATAATTG CTGTAGAGCC 60
ACACACAAC TTTGAACTTT TAATTATAAG TGTTATGGCT AAAGTTATTN NCTGAAAATT 120
TCAGTAAAGT GTGTGAATGT TTCTTTATGT ATTANCNN 158

SEQ ID NO:6563

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07740

SEQUENCE DESCRIPTION:

GATCAGGGTT CTTTTTTTCC CCCATACAAG TATCCAGTCA TTGTAACACT GTTTATTGAA 60
AGAATTATCC TTTCTCATT AAATTACCTT GCCAATTAGT AAAAAATCAA TTAACCATAA 120
A 121

SEQ ID NO:6564

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07741

SEQUENCE DESCRIPTION:

GATCAGCATA CACAAATNAC AAAAGTCTGA ATTTTTTTTT ATCAAGAGGG ATAAAACACC 60
ATGAAAATAA ACTTGAATAA ACTGAAA 87

SEQ ID NO:6565

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07742

SEQUENCE DESCRIPTION:

GATCCNTTTT NCTGTGGCAT TTGGTGCCCT AAAAATTTTG CATTTATCTT GAAA

54

SEQ ID NO:6566
 LENGTH:20
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07743
 SEQUENCE DESCRIPTION:
 GATCATTGA CAACTGCAA

20

SEQ ID NO:6567
 LENGTH:143
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07744
 SEQUENCE DESCRIPTION:
 GATCGACTAT GAGACAGCAA AGGGGCCTAC CTNCTNATGG AGTTAGCCAA GAGCCAGGAC 60
 AAGAGTCTCA AGATTATGA CGGTGCCTAC CATGTTCTCC ACAAGNAGCT TCCTGACGTC 120
 ACCANCTCCG TTTTCNTGA ANN 143

SEQ ID NO:6568
 LENGTH:199
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07745
 SEQUENCE DESCRIPTION:
 GATCTGCTGC AATGCTCNAAGGCCAAGGAT TCATCTNTCT TNTCACCCTA GGACCTGNCT 60
 GGCATTGTAT TAGCAAATC TTTCCTAGA CATCGTACTA CACGACACGT ACTACGTNGT 120
 AGCTCACTGC CNCTGATGTC CTATCAATAG GAGCTGTATT TNCCATCATA GGAGGCTTCA 180
 TTCCTGGTN TCCCNATN 199

SEQ ID NO:6569
 LENGTH:37
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07746
 SEQUENCE DESCRIPTION:
 GATCGTTTCC AGGACAATAA AAGTTTCGGA GTTGAAA

37

SEQ ID NO:6570
 LENGTH:57
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS07748
 SEQUENCE DESCRIPTION:
 GATCAGATGT TTAATAATNAT TCCAAATACT TCATTAAAT AATTATTTTA TTATAAA

57

SEQ ID NO:6571

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07749

SEQUENCE DESCRIPTION:

GATCGAGGAA AGGGGCGGAG AATTTTTTTT TCTTCTTCCC ATTTCTTTAA AAAACCAACA 60
CAAGAAAACA CACACACACA CAACCAACGT TTGTTCCCGA GTAGAAACAT AAATAGGGCA 120
GAATCGAACA CTCTGTTCTT CTCTCTTCCA AA 152

SEQ ID NO:6572

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07750

SEQUENCE DESCRIPTION:

GATCAGAGCT TGAAAAAACA AA 22

SEQ ID NO:6573

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07751

SEQUENCE DESCRIPTION:

GATCAACCTG TGGCTGTTTT CCCGTCTAGG TTCTCACAGG NATCTCCTGA CAGAGGTACT 60
TAACAATGGC TCTNCTGGAA ATTTCTATAA ATAAATGTC CAAAATGGAA A 111

SEQ ID NO:6574

LENGTH:44

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07752

SEQUENCE DESCRIPTION:

GATCTCATCA CTGCTCCTTA TAATAAACCT AATAAAGCAA GAAA 44

SEQ ID NO:6575

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07753

SEQUENCE DESCRIPTION:

GATCCCGCCA CTGCACTCTA GCCTATGTGA CTCTGTCTCA AA 42

SEQ ID NO:6576

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07754

SEQUENCE DESCRIPTION:

GATCATTGT AAGACCAAAA TATAAATAAA AAGTTTCAAA AATCTAAA 48

SEQ ID NO:6577

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07755

SEQUENCE DESCRIPTION:

GATCGATTAC AATAAATGTT TTTCTAAAAA GCCATTTTCC CACAAA 46

SEQ ID NO:6578

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07756

SEQUENCE DESCRIPTION:

GATCAAAAGC TTTGCATTGA TAAGTGCTC ATAATATTG CTGTGATTGG AGAAAAATG 60
TAGTCGTAGC CAATAAATT TATCAGCTT TAAGTTTCAG TATTATTAAC CCATTTTCAT 120
ATAAA 125

SEQ ID NO:6579

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07757

SEQUENCE DESCRIPTION:

GATCAAATGT GAAATAAATA TGAATGGAGT GGTAAA 36

SEQ ID NO:6580

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07758

SEQUENCE DESCRIPTION:

GATCTCTGGC CTTTGGCTT TCAGTATTTG TCCTTTTNAT GCCTGAATGT TTAACCTGCC 60
ACATNTTGT ACTGCAACAT GAATCTTGGA AATTTAATG TTATGCATT NAAANGTTT 120
TGGTATCTG TAAACTAAAT GTGCCCTTAT TGGCTNGGNG GTCAAGTNAA GATGTTTGTA 180
TAATGTATTN GTCAGNAAA 199

SEQ ID NO:6581

LENGTH:66

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07759

SEQUENCE DESCRIPTION:

GATCTACTGT GATGTTGTCT TCAAAGGCAG GNGAAAATAA TGTCACAAT AAAATGTGCT 60
AACAAA 66

SEQ ID NO:6582

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07760

SEQUENCE DESCRIPTION:

GATCTGTAAA GAATGACTTT CAAGGATAGT TCTTAGGGGA CTGTGAAAGT GTTGGGTCTT 60
ACTCNAGGAT GCCTGCATGG GACCCNACCC GGAGCTGGTG TGGCCATTCC CCAAGTGCCA 120
CTGGNCCATG GNNNN 135

SEQ ID NO:6583

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07761

SEQUENCE DESCRIPTION:

GATCAGCCTG GCCAACATGA TGAGACCCCA TTTGTACTGG AAATGCAAAA ATTGGCCAGG 60
CATGGTCGCG GGTGNCTGTG GTCCCAGCTG CTCGGGACGC TGAGGCAGGN NNNATCGTTT 120
GAACCTNGGN 130

SEQ ID NO:6584

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07762

SEQUENCE DESCRIPTION:

GATCAAAATGA AAGGCCTATA ACTAAAATCA GCCAGCCCAT GGCCCNCACT AAAGGAACCT 60
NCCTCTGCTC CCTNTGCAAA 80

SEQ ID NO:6585

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07763

SEQUENCE DESCRIPTION:

GATCAACAAT TTTTGTTTTG ATTAATAATNA GTTTTTTGAA AGTTGAAA 48

SEQ ID NO:6586

01903

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07764

SEQUENCE DESCRIPTION:

GATCCCCTGC TGGCTGGGGG CAGCTCCCAG GATATACTGC CTTACAACTG TTTCTAAAGC 60
CCATCCTNCT AACATGGCGA TTCCGGAGGT CAAGGCCTTG GGCTCTNCCC AGGGTCTAAC 120
GGNTAAGGGG GCCACATACC NGTTCCAAGG GGNNTGTCAA GTNGTGAAGT CGTTNTGN 178

SEQ ID NO:6587

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07765

SEQUENCE DESCRIPTION:

GATCAGATGG TTTATAAAAG TAATAACCAT AAAGCAAAAA ATAATTTGAA AGCCCGTCTA 60
TTCCTATGCT CANTAAAGTT AAGGTTTTTC TTCATTAAA 99

SEQ ID NO:6588

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07766

SEQUENCE DESCRIPTION:

GATCCTTTGA GCCCAGGAGT TTGAGACCAG CTTGGGCAAC ATAGTGAGAC CCTGTCTCTA 60
CCAAA 65

SEQ ID NO:6589

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07768

SEQUENCE DESCRIPTION:

GATCACAGGG TCAGGAGTTC AAGACCACCC TGGACAATAT TGTGAATTCC TGCCTCTACT 60
AAAAATACAA AAATTAGTCG GGCATGGTGG CGGGTGCCTG TGGTCCCAGC TACTCGGGAG 120
GCTGAGGCCA GAAAATCGGT TGAACCTGGG AGGTGGAAGG TGCACTGAGC CAATATCACA 180
CCAGTGCACT CCAACCTGGT GACGN 205

SEQ ID NO:6590

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07769

SEQUENCE DESCRIPTION:

GATCTCATAC TCAACAGAAG GAGACTCAGA GACTCCAGAA GGCACAGGAG CTGCCCN 57

SEQ ID NO:6591

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07770

SEQUENCE DESCRIPTION:

GATCATGTTT ATTTACTGAT AAAACTCAAT ACCTAGAACT GCACCTAGCT CATGATGGTA 60
CCTAATAAAT ACTTCAATGA AATGATGTGG TGATGCATGC CTATAGTTT AGCTACTTGG 120
GAGGGTGGCC TGAGCCAGG GGTTCAGAC CAGCTTAGGC AACATAGCA GACCCCATCT 180
CAAA 184

SEQ ID NO:6592

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07771

SEQUENCE DESCRIPTION:

GATCTGAATG GTTTAATAA GTGCCTGGNA TTTCCCTAC TGGCTCTCAT NCTNACTCTT 60
GCCGCCCTGT GAAGAGGTGC CTCCACCGT GATTGTNAAG TTTCTGAGG CCTCCAGC 120
CATGTGGAAC TGTGAGTCGA AAATNAAACC TCTTTTATAA TAAA 165

SEQ ID NO:6593

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07773

SEQUENCE DESCRIPTION:

GATCCAAGCT TAATTTTCAA ACAGCTTCCC AAAAAGCTGT ATCCTGAATA TCATAAAGTC 60
TATCATATGA TGTGACTCA GTCATATTCT GTAGACTCAA ATCTTTTATC TGATTATACC 120
AGCTTTCCCG NAAA 134

SEQ ID NO:6594

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07774

SEQUENCE DESCRIPTION:

GATCTGCCCC CGTTGGCCTC CAAAGTGCTA GGATTATAAG TGTGAGCCAC CACACCAGGC 60
CCGTTTCATC CCTGNCTCAG CCTGCATGCC AAGCTCCCTN GGTGCCCGNC CACAGGTGTC 120
ACCCTTNAG GAGAANGTGG CCTGGGGN 148

SEQ ID NO:6595

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07775

SEQUENCE DESCRIPTION:

GATCGCTTGT AGCTGGGAAC AGTGCTTACT TCAGGGAAAA CTGATTTTGA TAGAACCGAC 60
TAGTTGAGTA TTAAACTGTT TTGGAAATAA TTTATATATC TAAGTGCTGA AATATATTTC 120
TCTTCTCCCC ACTTATTCAA ATAAAAANGT TTNATACTA TAAACTTTTC NNGGTAGCG 180
CCACGCAGTC CTGTCAAGN TTGTNCTGGG GGNCAANAAC TTGATGTATA AAGCATGN 238

SEQ ID NO:6596

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07776

SEQUENCE DESCRIPTION:

GATCTCTACT ACCANAAGGA AAATAGTTTA GGNGAAACCA GCTTTTANTG TTTTGTAAA 60
ATTAGCTTCA CCCTGTNATG TTANCAAGGT ATGTCTTTGC CN 102

SEQ ID NO:6597

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07777

SEQUENCE DESCRIPTION:

GATCGCGCCA CTGCACTCTA GCCTGGGTGA CCAGCCTGGG TGACAGAGTG AGNCTCCGTC 60
TCAAA 65

SEQ ID NO:6598

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07778

SEQUENCE DESCRIPTION:

GATCTAGAAG AAAGTATTGT ACGTTTGAAT GCAGATTTTN ATCCACAGAT AGTTGTAGTG 60
TTTAGACATG ACAGGACCTA TCGTTGAGGT TTCTAAGACT TACTATGGGC TGAAACCTG 120
TTTTTNAAAA CTATTTTGA AACCTGAGAC TTGCCGTCTG GCATTTNAGT TTAATACAAA 180
CTAATGATTG CATTGNAAG NGNTNCTTGA CCTTATTCT AAACGTCTAG NGCTCTGAAA 240
TGTCTTGCTG GNNGGTATTA AACTATTTGC CTGTNGTACA TN 282

SEQ ID NO:6599

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07779

SEQUENCE DESCRIPTION:

GATCAAATGG CTTAGAGNTA GTCCTGGAAT ATTCATATTC AAAGATTCCT TATTAATGAA 60

TGTCTTTAAC TTAAATCTAC CCAATAATTG CAACATGGTT CTTTGACAT TTTCATTATA 120
 TGGTGTTAAC AAGCTTCACT GCAAACAAAT AAATTACTTA AGTTATTTGN AAA 173

SEQ ID NO:6600

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07780

SEQUENCE DESCRIPTION:

GATCAGTGTA GCAAAATNAGG GATGAAGNGT TCAAACCTTT TGGCCCTTTC TTTCTTNNCT 60
 AGGCTTCTCC CTCGCAGGGT GTTCCGTAGT TTCTTCTCGA GCCAATGCAT GTATTATAGC 120
 AGCAGGTGTC TTTGTGCTTT CTCATCATAG TAACGTACTA CTTGTAAATA CATTTNNCTA 180
 TTTNNCTATTT TTTTGTATTT TTTTGTGACA TTTTGTTC A TTGGTGTGCT GNGNGNNNCC 240
 CATGCCCTCA CTCCTTAAAG AAA 263

SEQ ID NO:6601

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07781

SEQUENCE DESCRIPTION:

GATCCAAAAT TCTCAACAAA ATATTAGCAA ATTGAACCCA CCAAGGTAA A 51

SEQ ID NO:6602

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07782

SEQUENCE DESCRIPTION:

GATCAAAGGC CTCTNAGGGG TGTCCACCAA AAATTCTCC TTCAAAGAG AAGACTCCGT 60
 GCTTCAGGGC TATGACATCA ACAGCCAAGG GGAAGAGTCC ATGGGAAATG CAGAGCCCCT 120
 TAGGAAGCCN ATCAAAAACC GGNGCNTANN GTTAANGAAA GTGAAGTCCC AGGAAATACA 180
 CATGCTCCCA ATCAAAAAC AACGGCTGGC CACCTTTTTT CCAAGAAAGT AAATAACGGC 240
 TTTTAAANT NNGTATGNTT ATAATATGGG GAAAGGTGCA TTN 283

SEQ ID NO:6603

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07783

SEQUENCE DESCRIPTION:

GATCGTTCAT CCGATTGCNA CGTTCCAAAG TGTCCAGGT TTTAAGACCT TACAAATGAC 60
 TCAGCCCACG TGCCACTCAA TACAAATNTT CTGCTATAGG GTTGGTGGGG CAGAGCTGTC 120
 TTCCTTCTGC ATGTCAGCAC AGTCGGGTAT TGCTGCCTCC CGTATCAGTG ACTCATTAGA 180
 GTTCAATNNN NATAGATAAT ACAGATATTT TGGTAAATTG AAA 223

SEQ ID NO:6604

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07785

SEQUENCE DESCRIPTION:

GATCACCTGA GCCTGAGAGT TCCAGACCAN CCTGGGCAAC ATAGCGAAAC TNCATCTCTT 60
TAAAAATAAA ATAAATTA AATTAATACA AATAATTA 100

SEQ ID NO:6605

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07786

SEQUENCE DESCRIPTION:

GATCCCTTCC ACTCAGGATT CTCGCCGCCT TTTCTAAGAA AATAATAAAA AAAAAATNCT 60
TGTTTCAAA 69

SEQ ID NO:6606

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07787

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGCCTC CCAAAGCGCT GGGATTACAG GCGTGAACCA CTGCGCCCAA 60
CCTTTGGATT ATTTTGTGTA GAGATGGGC TTCCCTATGT TGGCNAGGCT GGTCTCAAAC 120
TCCTGGANTC CAGCCTGGGC GGCAGAGCAA AACCTTGTCT CAAA 164

SEQ ID NO:6607

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07788

SEQUENCE DESCRIPTION:

GATCACTCCT CTGCTTCAGC CTGGGCAATT GAGCCAGACT CTGTCTCAAA AATAACAAA 60
AAACTTGAC AAA 73

SEQ ID NO:6608

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07789

SEQUENCE DESCRIPTION:

GATCTTTTCTA CCTGGATATG TCTGTAAGGC TCCTGAAAGA GACAAATAAA GTCAATATAT 60

TTNCACAGTG CAAA

74

SEQ ID NO:6609

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07790

SEQUENCE DESCRIPTION:

GATCTTAGGT CAAATAACAG ACTTGAGAAT ACTTTATAAA CTGCCATGAT ACAGCAAA 58

SEQ ID NO:6610

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07792

SEQUENCE DESCRIPTION:

GATCGNGNGC GTTAAACGCT GGTGGGCAGC AATAAGGGGC AGATGTGACC AGATGCCTGC 60

NTCCCCAGGG TGCCGAGGGC AGCAGGAAAA AGTGGGGACC TCGGTGCATT TGCCCCACCC 120

NTCCCCTNNC TGGGCTAAN 139

SEQ ID NO:6611

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07793

SEQUENCE DESCRIPTION:

GATCATCGAC ACTTCGAACG CACTGCGGC CCCGGGTTCC TCCCGGGGCT ACGCCTGTNT 60

NAGCGTCGCT TGAAG 75

SEQ ID NO:6612

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07794

SEQUENCE DESCRIPTION:

GATCTGGGGG AGGAAGTTCA AGGAAGGCAC CACACCAGAA ATNGGACCTA AATTAAGGCT 60

TAAAGAATGA GCATGGCCAC ACTGTCAGTN AGTGTTCTTT AGGTGGTAGG ACTATGGTTG 120

ANATTTTCNT TCTTCCTATC TTCCTGCCTT TTCAGGNNN TNAATATTAA N 171

SEQ ID NO:6613

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07795

SEQUENCE DESCRIPTION:

GATCACGATG TAAATAATTA AGCATTTTGG TTGGATTCT TTTGTAATAA ACTATTTTG 60
TACCATAAA 69

SEQ ID NO:6614

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07796

SEQUENCE DESCRIPTION:

GATCTAGGAT AGCTAAGTNA CCTACATGGT GACTGTTCGG TCTAATTCAG AAACAGAAGT 60
ACTAAAAGAA TACTAAAAAG TTTTACCCA TTATCTCTAT CCCTGTTTN TTTTGCAAT 120
TCTCAGCNGN AGGGAGCAAG AAAATACACA GCAGNGGGG GAATGTTGT TTGCATCCTG 180
GCTTCTCAA CCGCACTTA CGTCCTGAA TATNCTAGAT ATTTACTCCT TCAAGAAAGTC 240
AGGAGTATAT CCAGGCCTAC CTATCANCCT N 271

SEQ ID NO:6615

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07797

SEQUENCE DESCRIPTION:

GATCACACCA TGGAGACTTT CTACTAGAGG ACTTGAAAGA GAACTGAGGG GCCACAAAAT 60
AAACTTCACC TTCCATTAAG TGTTCAGCA TGTCTGCAA TTAGGAGGGN GTTAGAAACA 120
GTCTTTTCA TCCTTTGTGA TGAAGACTGA AATTGTCCG TGTTCCTTA TATGANTATG 180
CAGTATGGGA CTTTGAAATA ATGATTCATA ATAAATACT AAACGTGTGT CTTCAA 237

SEQ ID NO:6616

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07798

SEQUENCE DESCRIPTION:

GATCTNAAAT AAAATTCAAA CTCTACTTCT GTTGTCTAGT ATGTAATTGA GCTAATGATT 60
CATTGGGAAT ATACCTTTT ATACTCCTT ATCATGGTAC TGTAAGTGA TCCATATTAT 120
AAATATAATT ATCTNAAGN TTTTNAATTT TTNTNATGT CCAAGNGCCC ACGTGAATTT 180
NCTGGTGAAA GTNAGN 196

SEQ ID NO:6617

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07800

SEQUENCE DESCRIPTION:

GATCATCGAC ACTTAGAACG TACTCCNGNC CCCGTGCTCC TCCAGAACCT ACGNCTGCAC 60
TAAGCGTCGA TAAA 75

SEQ ID NO:6618

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07801

SEQUENCE DESCRIPTION:

GATCAGCCA CTGTACTCCT GGGCAACAAA GCGAGACTCC CTGTCTCAA 50

SEQ ID NO:6619

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07802

SEQUENCE DESCRIPTION:

GATCGAGGCT TGTNATGCCT TGTGAGAAAT AAGGGCCTTA ATTTGTACTG TCTGCGGCAT 60
TTTTNATAAT ATTGTATATA GTGACTGACA AATATTGTAT TACTGTACAT AGAGAGACAG 120
GTGGGCATTT TTGGGCTACC TGGTTCGTTT TTATAAGATT TTGCTGGGTT GGTTTTTTTT 180
TTAATTAAAA AGTTTTGCAT CTTTAAA 208

SEQ ID NO:6620

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07804

SEQUENCE DESCRIPTION:

GATCAGGAAG CCAAACCTAA GAAAGAGCTT GAAAATACTG CTCTAGAGCT TAGTCAGAAA 60
GAAAAACAGT TTAATGCCAA AATGCTGGAA ATGGCACAGG CTAATCAGC TGGAATCAGT 120
GATGCAGTGT CAAGACTGGA ACAAACCAA A 151

SEQ ID NO:6621

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07805

SEQUENCE DESCRIPTION:

GATCTNGGCA ACACAGTCAG ACTCCGTCTG AAA 33

SEQ ID NO:6622

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07807

SEQUENCE DESCRIPTION:

GATCCGGACG ACGTAATCAC TGACATTNAG ATGGTGGACG AGGGCTGGTG GCGGGGACGT 60

TGCCATGGCC ACTTTGGACT CTTCCCTGCA AATAATGTCA AGCTTCTGGA GTNACTAGAG 120
 CTCACTGTCT ACTGCAACTN TAATTTCCCA TGTCCAAAGN GGNTCTGCCT CCACCCCTC 180
 CCTATTCTG CTGCAATNT CTAACCAGAT GAGGTTCTGG ACAGACTTCC CTCTCCTGCT 240
 TCATTAAGGG CTTGGGGCAG AGNCAGCATG GGAAGGAGG TCCCCTTCCC CAAGAGTCCT 300
 CTTCTATCCC TGGATGAANN N 321

SEQ ID NO:6623

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07808

SEQUENCE DESCRIPTION:

GATCCCAGCA CCCATTCTT AGCTATTTAT CCCTTCTCTG GTTTCGAAA GGCAATTATA 60
 TCTATTATGT ATAAGTAAAT ATATTATATA TGGAAA 96

SEQ ID NO:6624

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07810

SEQUENCE DESCRIPTION:

GATCTAGGCT TCTNGCCTCA CTCCCATTAG GAATAACACC CAGCAAAATG GAACTATCCA 60
 AGCACTTCTT ATACATCTGT CTCCCATTCT TCTCTTAAGA AGTTTCTTCA GCTGGTGCGC 120
 CATCATCATC ACCATGACTG CCCCAGCTC TTGAGGAAAG GNATAATTAC CTCCATGGTG 180
 TTGCCTCCTA TTTGCCTAAA GCACCAGAAA TAATATTAAA TACACCAGAT TAACTACANA 240
 AA 242

SEQ ID NO:6625

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07811

SEQUENCE DESCRIPTION:

GATCCCGTCC TTGTCAGAGA AGTGTTCTT GGATGAGCGC CCAGAGGGAG GAGCCCATGG 60
 CCCTTTCTTC TGTNACTGAT TAAAAATCTC GATGAAA 97

SEQ ID NO:6626

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07812

SEQUENCE DESCRIPTION:

GATCCCTTCA AGACTTTGTC ACAGCCTCTA TCACACATCT GTTTTCTCG AAGNAAAAAA 60
 TATAATTAAT AAAAATGTTT TACTCTTTTA CACTGAAA 98

SEQ ID NO:6627

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07813

SEQUENCE DESCRIPTION:

GATCCCGNTG TTCTTAATAA ATCCTGACTT CCCAAA

36

SEQ ID NO:6628

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07814

SEQUENCE DESCRIPTION:

GATCAAAAAT AAATACTGCA CATAAANA AAAAN

35

SEQ ID NO:6629

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07815

SEQUENCE DESCRIPTION:

GATCTTGTTT TTATTGTTAT TGCTTTTATT ATNATTGCTT TTATTATCAT TAAAACTCTA 60

GTTCTTGTTT TGTCAAA

77

SEQ ID NO:6630

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07816

SEQUENCE DESCRIPTION:

GATCCAGTAC AGAAAGGAAA GGNTATTTAT TGATTAACAG AAGTTGTCCT TTTAAAAGTG 60

TTTATTTTGG GCAATAAAGA GCACAACATA ATCTCAAA

98

SEQ ID NO:6631

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07817

SEQUENCE DESCRIPTION:

GATCAGGGAA CAAAATCCTC TCCTTGTTGA AATATCCCAT GCAGTTTGTT GATACAACTT 60

AGTATCTTAT TGCCTAAAAA AAAATTNNCT TATCNTTGTT TCAAAAAAGC AANNTCATGG 120

ANAATTTTGG TN

132

SEQ ID NO:6632

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07818

SEQUENCE DESCRIPTION:

GATCAACGGC TGACCTTCTG GCGTCTGGGG CATGGTGAAC CCACCTNCAT GAATAGCACT 60
 GTGTTCCATG TGCCTGANGT GGCTGACATG GACTGCTGGC CTGTAAGCCC TGAGTTTGGC 120
 CACCGTTGTG CCCTTGGGGG TCAGGGGNTT NAGGTTTACA ACTGGTATGA CTGAGGTATC 180
 CTGCGGTGGC TGGCGTGCTG GGCATGGGGC NTGCTCACAG ACAGNATGGA GCAGGGAAGG 240
 GCTGTCTGT GCCCATGCTC AGCTTGNCCT TNNNGNNGAN GGAGGTNGTG GCCGTGGGTN 300
 CCTN 304

SEQ ID NO:6633

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07819

SEQUENCE DESCRIPTION:

GATCTCAAAT AAAATTNCTG TAAAGAATTT CCAA 35

SEQ ID NO:6634

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07820

SEQUENCE DESCRIPTION:

GATCCAAATC GGGCCATCTT CATTGCCATG AGTGTCGGA CAGGCTCTGC GTGCCAGGCA 60
 ACAGTGGGCA GACAAAGGGC TCCCTGGCTA CTGGGAAGAT ACAGAACCAT CCTGTGAAAA 120
 TCATTTCAGC ACTGGAGACC TTCTTTGCTA TTACTTCTTT CATTAACAAT GACCTCTAAT 180
 TTAAA 185

SEQ ID NO:6635

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07821

SEQUENCE DESCRIPTION:

GATCCGTGGC CTGAAGGTTT CTAGAGNCGT CAAGAAATNA ATATCTTACA CTGTGATTCT 60
 GTGAGGAAAG ACTGGTAACC CAAAACCTCTC TTCTCTAATG TATTTTNAAC CGNAAATGAC 120
 AATATTCTT TAATAAAGTA TTTATACCAA A 151

SEQ ID NO:6636

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07822

SEQUENCE DESCRIPTION:

GATCCAGGTC TAGGCCCTTN ATCTGCTGCT CTGTGGCCCA GGGCAGGTTT GCTTGACCTC 60
 TGCCTCAGTT CTCGACTCTA AAGGACATAC TGACCTACCT CACAGGGGTG TTGTNAGGAT 120
 TAATAAATNT TGGTACTCTG CTTTGGAAAT NTGAAAAAAA AGAAA 165

SEQ ID NO:6637

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07823

SEQUENCE DESCRIPTION:

GATCAAAATC AGTGTGTAT GTATGTTTAT GGCAACATTT TGAAAATAAA AATTAAATGT 60
 TTTNCTTCAA A 71

SEQ ID NO:6638

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07824

SEQUENCE DESCRIPTION:

GATCTCAATA CTTCCCTGAC ATCCCTTAAG ACTCAAGTCT TGATACTTTG TCTGCTCTCT 60
 GGCTCTTTCT TTGTCATTAC TATNATNNNA ATCTTCTTGA TGTTGACTCT TGCTAAAATT 120
 TTTNGTCTTC CTTATTGTTA ATGCTTATAG AAAATGATTG CTTGTATCT TTNAGCCCAT 180
 GTCATCCGAA TCATTTGCTG TTTCTAGCCT AGGTGCTTTG ACTATGCCAG CTTGTATTTC 240
 TNCAGAATTT NCATTANCTA TATGTGTGGT ATTGTAGGCA TTACCATATT TNAATAATAA 300
 NTTTAGGCCA TTGCTTCAAA TCACAACAAA NNACAACNCA ACNNACNN 348

SEQ ID NO:6639

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07826

SEQUENCE DESCRIPTION:

GATCTGAAGA GTGAAAATAA TGCTTTAAAT NAAAAATTGA AATCAGAAGG AAA 53

SEQ ID NO:6640

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07827

SEQUENCE DESCRIPTION:

GATCTTTTNN AATTCAGTAC AACCCATAAT CATGTAAATN CTCATTNCT TTAGGNCATA 60
 AAGAGAGCCC TAGGGTGCTC TGAATGTGTA CATGTNCTTG TCATAAAATG CATACTGTTG 120
 ATACAAA 127

SEQ ID NO:6641

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07828

SEQUENCE DESCRIPTION:

GATCTGTTGT TACTTAACAG AAA

23

SEQ ID NO:6642

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07829

SEQUENCE DESCRIPTION:

GATCTTNATG TTAATNTTCA GAGGACTCTA GACAACAAC TAGCAACTGA AGCTTATNAA 60

AGAAGAATTA AGCGCCTTGA GCAAA 85

SEQ ID NO:6643

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07831

SEQUENCE DESCRIPTION:

GATCTTTTGT GGATATTTGT CACTTGGTTT CAGAAAGTNC ACAAATGTAG CAACAGCTCA 60

CATGACTGAG TAGGTAGAAA ATGTGAAATA AATCTCATAT ATATNGTTTT AAA 113

SEQ ID NO:6644

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07834

SEQUENCE DESCRIPTION:

GATCGTCCCG CTGCACTCCA GCCTGGCCAA CANAGCGAGA CTGTCCCCC CAAA 54

SEQ ID NO:6645

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07835

SEQUENCE DESCRIPTION:

GATCTTGCTC CTCTGTAAGG AACAAGGGTG CCTAATAAAT ACATTNCTCC TTTATTAAA 59

SEQ ID NO:6646

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07836

SEQUENCE DESCRIPTION:

```
GATCCAGGGT CCCCAGGGT GGGCTCAGCT CCAGGGAGAG GCCACCCACG TGGCAGCCCC 60
ACCTCTTGAG AGCCCCAGT GCCGGAGCAG AAAGGACCCT GGACCCNGAG GCAGNNACTG 120
CGGGGTGGTA GAAAAGGTAG AGTAGGCTGT GGCAATGGAA TAAANCACGA TAAAAACGT 180
TAAA 184
```

SEQ ID NO:6647

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07837

SEQUENCE DESCRIPTION:

```
GATCCTTCCC CTGCAACCAG ACAGTCTACA ACTGCCCCCT CCAGCCCAT TNC TGCCGTG 60
AAACCCAGC CAGCCANACC AGGCTCTGGA ACCCTTTTTC GACTAGNCA ACTCTGGNC 120
ACCAGGNGGG GTAGAACACC NAACACCAA CTGTACAGAN TNTCCN 166
```

SEQ ID NO:6648

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07838

SEQUENCE DESCRIPTION:

```
GATCTNTNAT GGTCAGCACC ACCCGCNTAC CCAGTTCCTC CAGTGGAGAC CAGTTGGGTA 60
GTGGTGACTG GGTACGCTAC AAGCTCTGCA TTGTNTGCTG ATGGGACGCT CTTCAAGGTG 120
CAAGTAACCA GCCAGAACAT GGGCTGCCAA ATCTNAGNCA ACCCGGTGG AAACACTNAT 180
TAAAAGAACC CCAGAGGACA CCAACAGGTG TNTATCTGGN CNTGNCN 227
```

SEQ ID NO:6649

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07839

SEQUENCE DESCRIPTION:

```
GATCTTTGGG GTTGGAGTGA AGGTCTTATC TGCATTAATT TTGTTAATGC ACATTGTAGA 60
TGTGGAGAAC ATCTTGACCT GCATAAGGAT TCGTCTCAT TTTATTGTGT AGTGCTTTTT 120
CGAAATATTT ACATTTCTTT GGTTCCTATG TTCATGTATT CTGGAGAAGT AAAATTTCTT 180
GATTACTGGG CAGACCCTAA AACTACTAAG AGAAACATAA CATGTAGTTA GCTGTCTGCT 240
CATGGTTTGT TCAAATCTAA GCTAACCTTA ATGGTGCTGT GTCCGCTGTN CACAGAAAAC 300
GGCCTTAAAG TAGN 314
```

SEQ ID NO:6650

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07840

SEQUENCE DESCRIPTION:

GATCCCCTCC CCTGCCCTG GGTTCCTGCC TTCCNTCCTC AAGCAGGCAC NNAGGCTTTA 60
GAGAAGTATA GGGGGCTTCT CCCCTGCNGG GCTTACCACA NTTN 104

SEQ ID NO:6651

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07841

SEQUENCE DESCRIPTION:

GATCAAGATG CCGAACCTG TGTTCAGAAC CTCCAAATAC TGCCATGAGA AACTAGAGGG 60
CAGGTCTTCA TAAAGCCCT TTGAACCCC TTCCTGCCCT GTGTTAGGAG ATAGGGATAT 120
TGCCCCCTCA CTGCAGCTGC CAGCACTGG TCAGTCACTC TCAGCCATAG CACTTTGTTT 180
ACTGTCCTGT GTCAGAGCAC TGAGCTCCAC CCTTTTCTGA GAGTTATTAC AGCCAGAAAG 240
TGTGGGCTGA AGATGGTTGG TTTCATGTTT TTGTATTATG TATCTTTTGG TATGGTAAAG 300
ACTATATTTT GTACTTAACC AGATATATTT TTACCCAGAG TGGGGATATT CTTTGTAN 358

SEQ ID NO:6652

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07844

SEQUENCE DESCRIPTION:

GATCCAGTTT GGGATTATGA AATAAACCCAC AAATNAAAAT TTAAAG 46

SEQ ID NO:6653

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07845

SEQUENCE DESCRIPTION:

GATCTGGGGG GATGGAAAGC AAAATAAAGG AGGTGCCTGG NTGCATTATT TGCAGTGGGC 60
AAA 63

SEQ ID NO:6654

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07848

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGTCTC CCAAAGTGCT GGGATTACAG TCTTGAGCCA CCGGGTGACC 60
GTCTTACAGG GATATTTTNA ATCCCGTNAT GGACTCTGTC TCCAGGAGAG GGGTCTATCC 120

ACCCCTGCTC ATTGGTGGAT GTNAAACCAA TATNCCTTTC AACNGGTGNC TGNTAGGGAA 180
 AANCTACTCC TCATTATCAT CATTATTATT GCTCTCCACT GTATCCCCTC TACCTGGCAT 240
 GTGCTTGTA AGTNCTAGTT GTTCAATAAA TTTGTNAATA ATGCTGTAAA 290

SEQ ID NO:6655

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07849

SEQUENCE DESCRIPTION:

GATCTTCCTG GAAATNAGCA GTGACTAACG CTCACATAAC TGGTTTTTTT TTTNAACTGG 60
 GCTGATGAAT ACATTACCT ANGAACTCA TTTCTTTTA CTTAAGAGGG GANGTGCACT 120
 TTTNTTTTGG NAGTTCAGAN TCCAN 145

SEQ ID NO:6656

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07850

SEQUENCE DESCRIPTION:

GATCCTCTGG TTTNTTCCAT TGGGGCGGAG TCGGGGGTGG AGGGAGCTGG CCACAACCCA 60
 CTGCTCTGAT GGGTGGTTTG TCCAAGNATG CTGAATGTAA TGCCTGGTCA ATGTGGAAGC 120
 CCATNAGGTT GCCCAGGGAA GCCTCCAAAA GCTGGGATGC TTGAGGGTAT CCAAGTTGAA 180
 AAAGACAAAA TCTGACCATC AGCCAGTGAC AGTCCTGGCA AATNAAGGTG GGGCGGGGCA 240
 GTNAGGGGTG GGNGANGGTG AATNNTTCAT TATCCACCC NGCGGTTTNC TGGGGTGAGG 300
 GGGGAAGANTC GNTGCTTGCT TTGGGCACTG ANGGTTTTTC TGTNNGGGGA N 351

SEQ ID NO:6657

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07852

SEQUENCE DESCRIPTION:

GATCATGTGA AGAAAACAGT GACCATTGAA AATNACCCTC ATCTGCCACC ACCTCCCATG 60
 TGTTCAGTTC ACCCATGCAG GCATGCTGAG GTGATGAAGA AAATCATTGA GACTGTTGCA 120
 GAAGGAGGGG GAGAACTTGG AGTTCATATG TATCTNCTTA TTTCTTGAA ATTTGTACAA 180
 GCTGTCATTG CAACAATAGA ATATGACTAC ACAAGACACT TCACAATGTA ATGAAGNGAG 240
 CATAAAANCT ATCCTAATTA TTGGTTCTGA TTTTNAAGA ATTAACCCAT AGATGTGNCC 300
 ATTGNCCATA TTCATCANTA TATACAGTTT CTCTANTAGG GGAANN 346

SEQ ID NO:6658

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07853

SEQUENCE DESCRIPTION:

GATCCACAG CTGGCCCAGG AGTTCGACAT TNACCGCAAG GTGGGCGNAG AGCCTGTNCC 60
 TGTAACGAGG GATNATTCCA GCAATGGCTT TCCCCGCACT CAGCATGGTT CCCCAGTAAC 120
 CTCCTGCTGA CCAGCTCCTC GGGGGAGCTG TGGAGGATGG TGC GCATCGG TGGACAGCCC 180
 CTGGGCTTTA ATGAATGTGG CATCGTGCCA CAGATTGCAG GTCCCTGGC TGCCGCTGAN 240
 ATCTCTGCCT ACTACATCAG CACCTTCAAC TTNNGNNG GCCTGGTTGC CCGAGGACGG 300
 TATCGGCAGC GTCATCGNGG GTCCTCCAGN GGNGGAGG AATGN 345

SEQ ID NO:6659

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07854

SEQUENCE DESCRIPTION:

GATCTTTGTT AAAAAAATAA AAAGTACTAA CATTACAGAC ATGTAAA 47

SEQ ID NO:6660

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07855

SEQUENCE DESCRIPTION:

GATCCTGCCA CTGCAGAGTG AAACCCTGTC TCAAA 35

SEQ ID NO:6661

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07856

SEQUENCE DESCRIPTION:

GATCCCCCG AAGTCTTAC AGGCACTGCA TCGGGTTGTC TGGCGCCCTT TTCCTCCAGC 60
 CTAAACTGAC ATCATCCTAT GGA CTGAGCC GGCACTCTC TGGCCGAAGT GGCCGCAGTG 120
 TTGCCCCGA GTCGCCCCA CCCNCTACA GGGTCCCTCA GNTTATAGGT GCCCAGGCTG 180
 AGGTGAAGNG GCCTGGGGN CCTGCNTTCC GGGCGCTCCT GGACCNTGGG GCAAACCTGT 240
 GACNTTTT TACTGGANTA GAAATNNGT TTATNATTN 279

SEQ ID NO:6662

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07857

SEQUENCE DESCRIPTION:

GATCATAATA TAATTGGTTA CAAAGTGGAA GTGCCAGCTG GCTTAAGTAC CCAAAGAANA 60
 GAATGCAGCA GCCTAACTTA GTGTTACCAT ATGTACTGA ATTGAAACT GACCTTTTTT 120
 CCCACCCTAC TTCACACACC TAAACTCTT TTTTGTGAG ACCAAAGNGC AAA 173

SEQ ID NO:6663

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07858

SEQUENCE DESCRIPTION:

```
GATCCAGTTG TCATCCACCA CAGACATCTC ACATCAGATA CAGACAGTTC CAAGATTGAC 60
AACAGAGAAC AACCTGCTGG AAAGACCTGG GCAGAAATGG AGAGCCCTGC GGGAACCATG 120
CTACATTTTC ATCTAAAGAG AGAATGCACA TCTGATGAGA CTGAAAGTNC TTTNTTGTTC 180
TAGATTGTAG AATGGTATTG ANTTGGTCTG TGGAAAATTG CATTGCTTTT ATTTCTTTGT 240
GTAATCAAGT TTAAGTAATA GGGGATATAT AATCNTAAGG CNTTTTAGGG TGGCN 295
```

SEQ ID NO:6664

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07859

SEQUENCE DESCRIPTION:

```
GATCATGGTC AGANTGGAGT ACCTGGGGGC TGTCCATGCC CCCCTTTGGA CCTAATCCTA 60
CCCGTCCCGG CCAGCCCCTC TCCACACNT TNCTCCCCAA GTACCCGCCC ACCGTTTCCA 120
TGGTCGAAGG TCAGGGCGAG AAGAACGTGA CCTTCTGGGG GAGACCGCTG CCACGGGTGTG 180
AGGAGCTACA AGGGCAGAAG CTGGTGGTGG AGGNGNNACG ACCATNTNTA CACGTGCCTG 240
CTTGCAAAGA CCCTGAGGAA GAGGAACTCT AACANTTNT TCCTN 285
```

SEQ ID NO:6665

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07860

SEQUENCE DESCRIPTION:

```
GATCCTGTGA GTCAGTGTGG TTCATCAAAT AAAACTGTTT GTGCAAA 47
```

SEQ ID NO:6666

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07861

SEQUENCE DESCRIPTION:

```
GATCTCTAGA GCTGTCTTGT CGCCGCCAG GATTGACCTG TGTGTAAGTC CCAATAAACT 60
CACCTACTCA TCAAA 75
```

SEQ ID NO:6667

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07862

SEQUENCE DESCRIPTION:

GATCCTGCCT GGNCAACCCT TTCCTGTCCC AGGCCCTACA TTCAGCAGAA ACGCACTTTG 60
 GACTTTNTCC TTTANATAAA AGAAAGACAT CCCAGGAGAA GGACAAACCA GAGGAGTGAA 120
 CCAACAAAGA GTACCTAGGA ATGGAAGTTG AGCCCTGGAA TGGGGCTCCA TGGAGAGGTG 180
 CATAGGACTC GGCAGAAATG GCCTCTCCCC AAAGCCTCTT TTNAGAGGA GAGGGAAGCC 240
 TATTTTNTTA ACTGGTTTGG GATAGGGAAT GGGGTTNCTT TTTNTN 286

SEQ ID NO:6668

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07863

SEQUENCE DESCRIPTION:

GATCCCCGCC TGGCCAGGNG CAGGCACGGG TGGTCCCNGT TCCACCCCAA GAGAACTCGC 60
 GCTCAGTAAA CGGGAACATG CCCCCTGCAG CCAA 95

SEQ ID NO:6669

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07864

SEQUENCE DESCRIPTION:

GATCTCCTAA TGATGTATTG TGCCGTGGNA GTACTGTGTG TGAATAGCAG TAGTGGGGGC 60
 AAAAGCAAATC TTCTCATTG GAAATGTTGT AAATAATTTT ATTATATAGT GTTTTGGATG 120
 TATTTGTTGT AGAAATGGNC CAGTGAATAA AGAGAATCTA AGGNTTTGTA CAATGTGAAA 180
 TAACGTGTTA AATAANTGTC ATTGTCATAG AAA 213

SEQ ID NO:6670

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07865

SEQUENCE DESCRIPTION:

GATCTAAAGA CCCGGGAGCG AGAAGCCAAG GCCAGGTTCT GGGNGNAGGG CCCAGAGAAG 60
 CAGAACAGCC CAGAGCCCCA GGTGCCTGGC CTGGGCTAGA CCTCTGGAAT TGAGATTAAA 120
 CAATTTGGAG TTGGA 137

SEQ ID NO:6671

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07866

SEQUENCE DESCRIPTION:

GATCCGCTAC AGCAACGTGA AGAAGCTGGA AATAAGCCA AAGTACCCGC ACTGCGAGGA 60
 GAAGATGGTT ATCATCACCA CCAAGAGCGT GTCCAGGTAC CGAGGTCAGG AGCACTGCCT 120
 GCACCCCAAG CTGCAGAGCA CCAAGCGCTT CATCAAGTGG TACAACGCCT GGAACGAGAA 180
 GCGCAGGNTC TACGAAGAAT AGGGTGAAAA ACCTCAGAAG GGAAACTCC AAACCAGTTG 240
 GGAGGCNTTG TGCAAAAGGN CTTTTCAGN TTAAAA 276

SEQ ID NO:6672

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07868

SEQUENCE DESCRIPTION:

GATCCTGGAC CAGTCAGAAG CCGAGAAAGC TCGCAAGGAA CTTTGGAGC TGGAGGCTCT 60
 GAGCATGGCC GTGGAGAGCA CCGGGACTGC CAAGGCGGAG GCCGAGTCCC GTGCGGAGGC 120
 AGCCCGGATT NAGGGAGAAG GGTCCGTGCT GCAGGCCAAG CTAAAAGCAC AGGCCTTGGC 180
 CATTGAAACG GAGGCTGAGC TCCAGAGGGT CCAGAAGGTC CGAGAGCTGG AACTGGTCTA 240
 TGCCCGGGCC CAGCTGGAGC TGGAGGTGAG CAAGGCTCAG CAGCTGGCTG AGGTGGAGGT 300
 GAAGNAGTTC AAGCAGGTTG CCAGAGGCCA TAGGCCAGC ACCNTNAN 348

SEQ ID NO:6673

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07869

SEQUENCE DESCRIPTION:

GATCTGAGGC CAGCTCCCGT TCCCTGAGCT GCCTCCTGCT TCTCCCTCAA AGTCTCCTAC 60
 CCTTCTCTTC CTCTTTNAAG CCCTCTCTTC CTCGCTTTCC TTCCTACCTA GCTCCTTGTT 120
 GGTGAGCTTN TTGTGCCTTA ATNCTGTGAC CCAGGCCCTT ACACCANTTT NCACCTTCCT 180
 GTNCGGAGNA CAAGNCACT AGCTGCCCA GGAAGTTGTG TGATTTTAAA TCACTTCTGT 240
 CTTTGCTGGA AAGTGATTT GTGCATAAAT AAAAGTCTGN GGATTTGTTA AAAANAAGA 300
 AAAANACNNA AAAANAACAN TNAAN 325

SEQ ID NO:6674

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07870

SEQUENCE DESCRIPTION:

GATCAATGGA ATAGAATTTT ATTGGAAATG TAAACACTT TCCCAACAAT GGTCATGACT 60
 TTCTNCTGTT TTTGAGAAGA GTTTCATATG CTGGACCACA TTNAGCTTT TATTGTTTTT 120
 TTTTNCCTAT TGTCAAAAA GTTAAGCAAC AAGTGGCCAC ACTTTTACGT GNCTACAACC 180
 TGGAGTTCTG CAAAGAAGGT AATATTTNCT TGGNCTTTGC CTAANGTTAT CTCCCCATTC 240
 TATGTTTACA TTTTATTTTG GCCTATGGGG CTTTCTAATA CGTTTTGGTA AAGAGGCGAG 300
 TNTAANGNAA TTNCTTGTC AATTTACCT CAAAGGTAAT TTCNTGCN 348

SEQ ID NO:6675

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07871

SEQUENCE DESCRIPTION:

GATCAACTCT CTAATGGTGC TAATGGCAAT CTAGCTAATG TGCAAATTTA GGAAGTCTTC 60
AGTACTAAGT ACATAATTTT CAAATAATAT TTTTNAATTG TCTACTTTGG ATGTTAGCTA 120
TGTCTTGTGN GTATAGGATT CCAATTTTAA GCACTATTTT GATGCAAAAN AATGCATAAN 180
NAATTTANTT TATAAA 196

SEQ ID NO:6676

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07872

SEQUENCE DESCRIPTION:

GATCATAAAA ATGTGCGCCA ACAACGGCAG GCGCCATCTA AAGCAGCTTC TAAACAGAGA 60
GAGATGCTCA TNGAAGATGT NGGCAGTGAG GNAGAACAAG AAGAGGAGGA TGAGGCACCA 120
TTCCAGGAGA AAGATTCCGG CAGCGATGAA GATTTCCTAA TGGACGATGA TGACGNTNGT 180
NACTATGGCA GTTCGAAAAN GAAAAACANA TNNN 214

SEQ ID NO:6677

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07875

SEQUENCE DESCRIPTION:

GATCCCCCAA GCCTGACGNG CCGNTNACCA TCCCCTCTGC CCTGCAGAGN CAGCCGCCAA 60
GGNTGACCTC AGCTTCGGAG CCACCTCTGG ATGAACTGCC CCCAGCACCC GCCCCATTAA 120
AGACCCGGAA GCCTGAAA 138

SEQ ID NO:6678

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07876

SEQUENCE DESCRIPTION:

GATCCATCGC AGAGTCCTAA AGAAGAACCC ACTGAAAAAN TTGAGANTCA CAAGCTCCGG 60
GTGGATAAGG CAGTGCTGTC AGCANGGCAC TACAAGCCAA ATCAGATGAG AAGGCGGCGG 120
TTGCAGGCAA GANGCCTGTG GTAGGTAAGA NAGGAAAGAN GGCTGCTGTT GGTGTTAAGA 180
NGCAGAAAGAN GCCTCTGGTG GGAAANN 208

SEQ ID NO:6679

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07878

SEQUENCE DESCRIPTION:

GATCTCCTGG AGGCTACAGG GAGCAGAGGC GATGCCCCGA GCGGCGAGCG TGTTCACAGG 60
AGCAGGTGGG CAGGGGCCCTT GCAGACTCTT CATTTCTTCC TTCCCTTATC ACCGTTAGCC 120
ATTTNATGG GATAGAGATA CAGAGGAGCT CCCATTACAA AGCGCCATTA AACTGTCATC 180
TGTGCAAA 188

SEQ ID NO:6680

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07879

SEQUENCE DESCRIPTION:

GATCTTGGTG GTAGTAGCAA ATATTCAAAC GCAAA 35

SEQ ID NO:6681

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07880

SEQUENCE DESCRIPTION:

GATCTTCCGT GGTGAGAGTG CCACTGCGGG AGCTCTGTAT GGTGAGGATG TAGGGGTAA 60
CTTGGTCAGA GCCACTCTAT GAGTTGGACT TCAGTCTTGC CTAGGCGATT TTTTCTACCA 120
TTTGTNTTTT GAAAGCCCAA GGTGCTGATG TCAAAGTGTA ACAGATATCA GTGTCTCCCC 180
GTGTCTATC CCTGCCAAGT CTCAGAAGAG GTTGGGCTTC CATGCCTGTA GCTTTCCTGG 240
TCCCTACCC CCATGGCCCC AGGCCACAG CGTGGGAAC CACTTTCCT TGTGNTN 297

SEQ ID NO:6682

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07881

SEQUENCE DESCRIPTION:

GATCCAAGAT ATCACTTAGA AA 22

SEQ ID NO:6683

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07882

SEQUENCE DESCRIPTION:

GATCCAGCTG TGGTTCCAGA GCAGTGAGCT GGTGAGCTGG GCAGATGGGG GCCAGCACAG 60
CAGNATCCAC CCAGNCTGAG GCTCAAGCTG CCCTTACCAC CCCATCCCC ACGCAGGACC 120

AACTACCTCC GTCAGCAAGA ACCCAAGCCC ACATCCAAAC CTGCNTGTCC CAAACCACTT 180
 ACTTCCCTGT TCACCTNTGN CCNACCNCAG CCCAGAGGAG TTTGNGCCAC CAACTTCAGT 240
 GNCTTTTGT ACCCNAAGNN AGCACAAGAT TGGACCAATA NTTTTGNAG TN 292

SEQ ID NO:6684

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07883

SEQUENCE DESCRIPTION:

GATCTGCCTT AGCCTCACTG CTTGCCCTTA AGTGGTGGGA TTGCAGGTGT GAGCCACTGT 60
 GCTGGCCTCA AATAGTTTNN ATCAAAGCTA CTTCAATTAG TGGTTAGCAA GGCTTAAAGA 120
 CTAATTCAGT GCTTTATTTT NACACTNGNT CGCAACATGT TGCTTTTTTN CCTGTGTCCT 180
 ATGGGACCTA GTCATCTGTA TGTNAGATTC ACAGAGGAAT TAAAGAGATA AACATGCATG 240
 TNCTAAA 247

SEQ ID NO:6685

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07884

SEQUENCE DESCRIPTION:

GATCCACAAC TACACACATC ATAACCACAC CATCAA 37

SEQ ID NO:6686

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07885

SEQUENCE DESCRIPTION:

GATCTCTGAG GAGTCCCTG GGGACAAC TG AGCAGCCTCT GGAGAGGGGC CATTAAATAA 60
 GCTCAACATC ATTGNACNAA A 81

SEQ ID NO:6687

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07886

SEQUENCE DESCRIPTION:

GATCAGCCTT TCCAGGTGCT TTAGTCGTTT GCCTAGACAC GTTCCTGTCT CCTCTGACAG 60
 CTGCAGTTGC TCTGCGCTGC TAGACATGGT GGACATTNNA GCAGCCTGAC CTGTGGGGAG 120
 GGGGTCTCTC CCGAAGAGTT TCTGTTTTTA CTCAAAATAA TGTATTCTC AGATGCTTGA 180
 TGCATGTTG GAAATGTGCT CNATTTAATC ATGCAGATAA ACCATTTAAA TGTCAA 237

SEQ ID NO:6688

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07887

SEQUENCE DESCRIPTION:

GATCTCTTGA GCCCAGGAAG CCGAAGCCAC AGTGAGCTGT GATTGCACCA CTGCACTCCA 60
GTCTGGGTGA CAAGAGTGAG ACCCCATCTC AAA 93

SEQ ID NO:6689

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07889

SEQUENCE DESCRIPTION:

GATCGCAGCA TTGCACTCCA NCCTGGGCAA CAAGAGTGAA ACTCTGNCTC AGAAAAGAGA 60
AA 62

SEQ ID NO:6690

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07890

SEQUENCE DESCRIPTION:

GATCCTCCTG CTTCAGCCTC CCAAAGTGCT AGGATTATAG CCACCGCACC TCGTCTTGAA 60
ATAGCCTTTT AAATGTTTAC CTCAGCTTGC CTCACAGTGG GTCTGTTTCT GGTTTCCCAG 120
ATGCATAAAG GAAGACATAT CCCTCCCCTG GGNAGCAAGG CTACAATGGG AGGGAGGGAG 180
AACATGGGAG CATGTGAATA AAATGGCATT AANTACTGAA A 221

SEQ ID NO:6691

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07891

SEQUENCE DESCRIPTION:

GATCATCAAG AAAAAAGAAA CTAAATGGA CACTTTTAAT GCTGCAAATN AGCTTGTCGT 60
GAAGTTACCT GATTGTNTAA TTAGAATGAC TACCACCTCT GTCTGATTCA CCTTCGCTGG 120
ATTCTAAATG TGGTATATTG CAAACTGCAG CTTTCACATT TATGGCATT GTCTTGTTGA 180
AACATCGTGG TGCACATTG TTTAANCAAA 210

SEQ ID NO:6692

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07892

SEQUENCE DESCRIPTION:

GATCTGTCAT CTTCATAGCA CAACAAAACG AAATGATGGA AATNCTCTTN AGCTCACAAC 60
 ATTTGTTTTN CTTTAAAGT AAATGCAAGT ACCAAAGCTC ACTACTGCGG TTTGCCTGTN 120
 CCTGGNCANT GAGGCGGAGC NCTGTTGTTT TGTGGGGCA CCCCCTTNN 169

SEQ ID NO:6693

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07893

SEQUENCE DESCRIPTION:

GATCTCTGCT TACCGTTCAA GAGGCGTGTG CAGGCCGACA GTCGGTGACC CCATCACTCG 60
 CAGGACCAAG GGGGCGGGGA CTGCTGGCTC ACGCCCCGCT GTGTCCTCCC TCCNTCCCTT 120
 CCTGGGCAG AATGAATTCG ATGCGTATTC TGTGGCCGCC ATCTGCGCAG GGTGGTGGTA 180
 TTCTGTCAAT TACACACGTC GTTCTAATTA AAAAGCGCAT TATAAA 226

SEQ ID NO:6694

LENGTH:31

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07894

SEQUENCE DESCRIPTION:

GATCTCTTAA ATAACTTGC TTCTGGTTAA A 31

SEQ ID NO:6695

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07895

SEQUENCE DESCRIPTION:

GATCTAAATT TGTTATTTA AGCTGCAAGN AAGTTACATT AATTTGGAAT GTGTCATCAC 60
 TTGGNCCCAG TATATCAGAT TTTNATTGAG TAAAATGTTA AAAATAATAA GTGTAECTA 120
 GATTCTGGAT GTNCGNGTTT ACAATACATT GCCTGTAATA AAAGCTGATT CTGANGTGCA 180
 AA 182

SEQ ID NO:6696

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07896

SEQUENCE DESCRIPTION:

GATCCCAACC CTGTGTCCTG CCCTGACCCC TGTCTCCCA CTCGTGGCAC TGTCAGCCCA 60
 GNCCTCCCTA CCGGCGAGAG TCCAGAGTGG GTACAGGAGC AAGGGGCACT GCTGGGGCCT 120
 GATGGCTGAA GGAGACGCCG GCATCCTCGG GGGCCTGGGG AAGTTGTGTG TTGTGCAGTC 180
 AGTAAATCC TCCCACTGCN AAA 203

SEQ ID NO:6697

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07897

SEQUENCE DESCRIPTION:

GATCAAATGA AATAATGTAA CGTGAGNATA CAGTATAAAT GATAAAGGAA A 51

SEQ ID NO:6698

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07898

SEQUENCE DESCRIPTION:

GATCTCCGGG CAGCCACCAC CTCCTCGGTC TGCCCCNTCA TTAAAAAGTC CTCCTTCCAT 60
AGAAA 65

SEQ ID NO:6699

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07900

SEQUENCE DESCRIPTION:

GATCTAGTGC CTAGTGTTC TTTTCTGATG TAATAAAAGG TGGTCTGGCA GAACCTAAA 59

SEQ ID NO:6700

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07901

SEQUENCE DESCRIPTION:

GATCCAGAGC CACAGAAAGA AATGTAGGTG TGAAGTATTA GGCTGCTGTC AGGGNGAGGA 60
TGGCAGATGG AGGCATCAAG CACAAGGAAA ATGCACAACC TATGCCCTNT TATACANNNN 120
GTTTCATGTN 129

SEQ ID NO:6701

LENGTH:39

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07902

SEQUENCE DESCRIPTION:

GATCTTAAGT TTACAATTAA AAACCTCAGTA CTCAATAAA 39

SEQ ID NO:6702

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07903

SEQUENCE DESCRIPTION:

GATCCCCCG GGCATGGCCT GGGCTGGTTT TGAATGAAAC GACCTGAACT GTCAAA 56

SEQ ID NO:6703

LENGTH:31

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07904

SEQUENCE DESCRIPTION:

GATCCTTTTA AAATAAAAAT NTTGATGCAA A 31

SEQ ID NO:6704

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07905

SEQUENCE DESCRIPTION:

GATCAGGAGC CTTCAATAAA ACAGAAATTT TAGGGAAAAC CACAAAAACC TTCGTAAAGT 60
GAATTGCATT AAACATCAAT TATAATAAAA TTTCATATTT TGANTAAA 108

SEQ ID NO:6705

LENGTH:29

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07909

SEQUENCE DESCRIPTION:

GATCAAAAGG GACAAGCATC AAGCACAAA 29

SEQ ID NO:6706

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07911

SEQUENCE DESCRIPTION:

GATCATGGGC AAAATCTAGC CACAGTCCTG AGAGTCCAGG CTTCTGGGAT GCCCAGCTGG 60
GTATAAAAGT CCCTACTAAC CCTGNTTCAA ATTCAGAGGT TTCTTTGGTT NAGAATGCCT 120
CAATGAGATT TTGATACATC CAAGAGCGCA AA 152

SEQ ID NO:6707

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

2153480

CLONE:HUMGS07912

SEQUENCE DESCRIPTION:

GATCTAAAAA ATACAAAATG TAGACAATTA CTATTCAGGT GCTTACTTTT AAGCCAATAT 60
GTAGCAGNGN AAAACTAATT TCTCTGTGGC AGTATTTTAA TTTTGGNAT GTCCNGGN 120
TTAACTGAN 129

SEQ ID NO:6708

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07913

SEQUENCE DESCRIPTION:

GATCCGCACT GGGGGTTCTG CAGGGTGGG NCAACCACAG CCTGTCACAA GCTCACCCTC 60
AGCCTCTNTG GNGCCATTG GCAGCATGAA GTCCCTATCA CCCACATAAT AATGNGNN 118

SEQ ID NO:6709

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07915

SEQUENCE DESCRIPTION:

GATCTTTCCC AGTATCTNNA GTGGGTGACC ACACTTGTCA GTGGGAGNCT NTGAAACTAC 60
CCTATCGNCT CCTTAAGGGC GGGATGAACT GCTTGTGAC TTGGAAAGGT ACGCTGCTGG 120
CCAGCATTGG AGANGAAGCT NCTGAGCAN 149

SEQ ID NO:6710

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07916

SEQUENCE DESCRIPTION:

GATCAGGTGG TCAAGGTGCT GCACGATGCC CAGCAGCAGT GCCGAGACGG CCACCCGGTT 60
GTGGTCAACA TCCTCATTGG GAGGACGGAC TTCCGCGATG GCTCCATTGC TGTATAGGGC 120
CTTGTGGGTC AGNACGCTTN GCTGCCTTCC TACCCCTGGA CTGTNTCAA NTGGTTTNG 180
AGTCTCATNA TTGCTTACCC CTGGNGCTNA TCCCATGAGG NCCCANTGNA CTTCAN 236

SEQ ID NO:6711

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07917

SEQUENCE DESCRIPTION:

GATCCGCAAA GAGGAAGACC GCCTCTTCAT TCTCAGGACC NTCACCTATT GATGGGAATN 60
TGTGCGGGCT CAGGGTTCCCT NNACACACTA GNTGTGGGAA GCCATAGGAG CCTCCAGATG 120
GGGGCTGGCC TCTCTGCCCC AGCNAGNGGG CAGGGCCTGT GGGNTGGTGA ATN 173

01931

SEQ ID NO:6712

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07918

SEQUENCE DESCRIPTION:

GATCACGNCA TGGCACTTCA GCCTGAGCGN CAGAATGAGA CTATTAAA

48

SEQ ID NO:6713

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07919

SEQUENCE DESCRIPTION:

GATCGTGTCA CTGAACTCCA GNCTGGGTAA CAGTGGGACT CTGTCTCAAA

50

SEQ ID NO:6714

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07920

SEQUENCE DESCRIPTION:

GATCTTTGTT TAAATGCCAA AATGTACTTA AATGAGTTAC TTAGAATGCC ATAAAATTGC 60

AGTTTATGT ATGTATATAA TCATGCTCAT GTATATTTAG TTACGTATAA TGCTTTCTGA 120

GTGAGTTTAA CTCTTAAATC ATTTGGTTAA ATCAAA 156

SEQ ID NO:6715

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07921

SEQUENCE DESCRIPTION:

GATCGATACC CCCACCCCTC CACTNGCCAG CCTGGGGGTG CCCTGCCTGC CCTCCTGGTA 60

CTGTTGTCTT CCCCTCGGCC CNNTCACATG TGTATTCAGC AGCCCTATGG CCTTGGCTNT 120

GGGCCTGATG NGNAGGGGTA GAGGGAAGNT GAGCATAGCA CATTTTCCTA GAGCGNGAAT 180

TGGGGGNAAG CTGTTATTTT NATATTAN 208

SEQ ID NO:6716

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07922

SEQUENCE DESCRIPTION:

GATCACGACA CTACACTCCA GCCTGGGGGA CCGGGCAAGA CTCTGTCTGT CTTTAAA

57

SEQ ID NO:6717

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07923

SEQUENCE DESCRIPTION:

GATCTTGA AAAAAGCAA AAGCTTAAAT ATTTGATACA AGTTTACTTA GCTACAACAT 60
 ACTTTACATT GTTGCCCTTA GTTATCTCAC AGGCACTGAC ATTTTATATT TAGAAAATAC 120
 TTTTAATCTT NCTAATCTTT TTTTGTAAT ATTAGTGTC ATTCTGTATG ACTCGCTAAC 180
 CTACTTTGCA AGGCTTTGGG CAACATTTTA GCTCATTAAAC TTCAAGATGA TGTGTCATCT 240
 GTATAGGTCA AAGAATGGG CTTCTGAACT GAGGAATTTT GCTGTGACA GCCAAAGTNT 300
 AGTGTACAAG GTTTGATGNA ACTNGNTTAT GTN 333

SEQ ID NO:6718

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07925

SEQUENCE DESCRIPTION:

GATCTTGGAC TTCCAGCCT CCAGAATTGT GAGAAATAAA TTTCTGTTGT TGATAAA 57

SEQ ID NO:6719

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07927

SEQUENCE DESCRIPTION:

GATCTTTGCT TAATAAGANG AAAAAGAGG CAAGGAGAAA ACGAAGAGAA AGAAATTTTG 60
 AAA 63

SEQ ID NO:6720

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07928

SEQUENCE DESCRIPTION:

GATCCNGTGT TCTTCTGTGA AA 22

SEQ ID NO:6721

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07932

SEQUENCE DESCRIPTION:

GATCCGGCTT GGACAGGCAC CTGAGATGGT GCCAAAGTGC AGCTGACTCT TCCCACGACA 60
 GCCCTGCCCT: TCCCATGAGG CAGGCTCTTC AGTGAGTGTT TGAACGTAAT TATGTAGTTT 120
 TCTGTTTAAT TGA AAAAGNG AGCTATGCCT TTTTCTTT TTGGANGTAA AGCAGCTAAA 180
 ANCAA 186

SEQ ID NO:6722

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07933

SEQUENCE DESCRIPTION:

GATCCAGGTG TTTGTTCTA ACTTCTGTAA TACATACAAT GCAAA 45

SEQ ID NO:6723

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07934

SEQUENCE DESCRIPTION:

GATCATGGTG ATTTNACTGC TGCTTGTGGN TATCGTGGTT GTTGCAGTCT GGCCGACCAA 60
 CTGATGGCAG TAAAGAGACC ACCAGCAGTG ACACCTGCCA ATNACAGATG CAAGCCCAAC 120
 ACCCTNTTGG TACGCAAAAC CTNATCTCAA TAAATCCCC CAAAGCTCTG AAA 173

SEQ ID NO:6724

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07935

SEQUENCE DESCRIPTION:

GATCCCAAGC CTGCATTGT AAGCCCACAG TAGGCACTCA ATAAATGCTT GTTAAAGGAA 60
 A 61

SEQ ID NO:6725

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07936

SEQUENCE DESCRIPTION:

GATCTGCAG AAGAATAACC TGAATCTGCT CAGAGACCTA AGCTGTGCAC ATTGCCATA 60
 GCCTCAGGAA CAGTCCAGAC TGGGGCGGTG TGGTCATATT ACACAGNNAG GAGGGTGATT 120
 CAGAGTTCAT GAATATCATT GCCAATNAGA TTGGGTCAGA GGAGACCCTC CTGTTCTTAA 180
 CTGTGCGCGA TGAGNAAGNT GGTGGNCTNT TTTACTGGC AGGGCCACNA NCGCTCATGT 240
 GGAGACCCNG GGGCCAGGG TGGCTGATN 269

SEQ ID NO:6726

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07937

SEQUENCE DESCRIPTION:

GATCCCTCAT CCCTGAAATT GAGTTTATGT AGTCATTTTA CTTATTTNAT TCATTAGCTA 60
ACITTGTCTA TGTATATTN TAGATATTGA TTAGTGTAAT CGATTATAAA GGATATTTAT 120
CAAATCCAGG GATTGCATTT NGAAATTATA ATTATTCCT TTGCTGAAGT ATTCATTGTA 180
AAACATACAA AATAAACATA TTTNAANACA TTTGCATTN ACCACCAA 229

SEQ ID NO:6727

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07938

SEQUENCE DESCRIPTION:

GATCCATGAA CTCTGACCCC TCCCCAGTAA AGGCTTCTGT AGAGAGCAAA 50

SEQ ID NO:6728

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07939

SEQUENCE DESCRIPTION:

GATCCCCGCA CCAGCCTCTC CTCTCTTTCC CTGCAACCTG TTACCTCACA CAGCTGCTCA 60
GGAACAGCAG AAATAGTAAA ACTCTTCCAT ATATGTGGCA CCTCAGCCGC CCCTCCNTTA 120
AA 122

SEQ ID NO:6729

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07941

SEQUENCE DESCRIPTION:

GATCAGGAAG TTCTTAGATT CTTGGATGAC AGATGCATGT TGATGCCCTA TGGAGATGTC 60
CTTNTGTTTT GAGGTCAC TG AGGTAGGAAG ACCTGTCTAC TCTTGGTTTC ACCACTAGAA 120
CAGTCTTGGG CTGGATGGGT TATAGAGCTG AGCGGCTGTA ATGGTTCTNT TTTTACATTA 180
ACAAAAACAA TAAAAACAC CAAAAACAAC AAA 213

SEQ ID NO:6730

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07942

SEQUENCE DESCRIPTION:

GATCCCAGGN ATTCAAGGT AGAGTGAGCT ATGATTGCAC CACTGTACTC CAGCCTGGGC 60
ANCAGAGANN GACCTGTCTC ACAA 85

SEQ ID NO:6731

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07944

SEQUENCE DESCRIPTION:

GATCCAGCTG GAATTTGAGG AACTGGAAC AATGAGGTCA GCTTCAAAA CAAAACAAA 60
CAAAACTTTA AACATCTGTG TAAGTACAGG GTGGAATATA ATGAATTCCA GGTACCCATC 120
ACTTAGGTTC CACAATTAGC CATGGCCAAT CTTGTGTGAT AGGTATGTCC CTACCTATTT 180
CTCCCTGCC CTNATTGTGA AGTAAATATT TTCCTAAAAG GTCTTTTAA AATTAAGTTA 240
TAACCATGCC ATCATTGTAC AAANNTAATG CTATTANNTT CCTTANTNTN ATCAAATNTT 300
CNNGNCTNAN NTN 313

SEQ ID NO:6732

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07945

SEQUENCE DESCRIPTION:

GATCACTGA ACCTAAGAGT TTGAGGCTGC GCACTGCACT CTGGCCTGAC AGAGCGAGTC 60
ACTGTCTCTT AAA 73

SEQ ID NO:6733

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07946

SEQUENCE DESCRIPTION:

GATCTGAATT CTAATGCTGG CTTGTGCCTC TAACTATGTG GTTTGGTCAT TATAGATAAT 60
GCCCAGTTA ANTTTCCCA TCTTTGAAA GGAGATAATA TGTNATCTCT TGGGAGTAGT 120
TCTGAATATG AAGTGTGTTG ATACAAGAAG CACTGACAAT GTTCTGTNN NNNAAATTTA 180
AAACTGGCCT GGTTCGCCTT TTTAATCAAG NGNGCTTAAC AGGTAAAAAN TTGGAATTAG 240
NCCTAAAAAN AAAACN 257

SEQ ID NO:6734

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07948

SEQUENCE DESCRIPTION:

GATCCTTTAG CCTCCTGGNA GTGCCCCAGT TGTACCCCT ACACACCCT CTTGGCATTG 60
AGTGCCAGTC CTCTGCCAGG CTNTGTGTTA CAAGTTGGGG NGGCGGCAA AGTACCGAAT 120

TAAAGATGTC AGTTCTAAAG GAGGNAAA

148

SEQ ID NO:6735

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07949

SEQUENCE DESCRIPTION:

GATCATATCC AATTCATATG GAAGTCCCGG GTNTGTCTTC CTTATCATCG GGGTGGCAGC 60
 TGGTTCTCAA TGTGCCAGCA GGGCCTCAGT ACCTGAGCCT NAATCAAGCC TTATCCACCA 120
 AATACACAGG GAAGGGTGAT GCAGGGAAGG GTGACATCAG GAGTCAGGGC ATGGNNTNGN 180
 NAGATGANTA CTTTGCTGGA TGAAGCAGGC TGCAGGGCAT TCCAGCCAAG GGCACAGCAG 240
 GGGACAGTGC CGGGAGGTNT NGGGTAAGGG AGGGCAGTNA CNTNAGAAA 289

SEQ ID NO:6736

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07951

SEQUENCE DESCRIPTION:

GATCAGGCTT TTAAATACTC ATTTACAAGT TTTCTATCCT CCTTCAGTGT TAAAGTAGAA 60
 AGTAAAAAGA GTATCTNATA CATGCATGAA ATTAAAGCAT ATACCAAATG CAAA 114

SEQ ID NO:6737

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07952

SEQUENCE DESCRIPTION:

GATCACCCAG CATCCTTCCC CACCCAGCT GTGTATTTAT ATAGATGGAA ATATACTTTA 60
 TATTTTGTAT CATCGTGCCT ATAGCCGCTG CCACCGTGTA TAAATCCTGG TGTATGCTCC 120
 TTATCCTGGA CATGAATGTA TTGTACACTG ACGCGTNCCC ACTCCTGTAC AGCTGCTTTG 180
 TTTCTTTGCA ATGCATTGTA TGGCTTTATA AATGATAAAG TTAAAGAAA 229

SEQ ID NO:6738

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07953

SEQUENCE DESCRIPTION:

GATCTCTTGT NCTTTAATTT TAGGGTCTTG TTCCAGGACT CAAATCAGTA ACTTGGTGAT 60
 TACAAGGTGC TGAATGTGTT GGTAAACATA TCGCAATACA CCTCAAGGAA AAGGTTTACA 120
 TTTTNAATTT TAAAATATTT NCATTTTTTC CTTGAATTN ATATCCGTTT GTCCACTCGT 180
 ACATGCCTAG CCTACAGAAG GGGATATATA TNATGANATG GTCATTTTCC TGAAGNGNAT 240
 ATTTTGCTTG AAATGCAAAG GNCTGAAAGN GNTTTGTAGG TTGTTGGTTT TTTCN 295

SEQ ID NO:6739

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07954

SEQUENCE DESCRIPTION:

GATCATAACA CTACTCCAGT CTGGGTGATG AAGTGAGACC TGTCTACAAA AAAAAGAAGC 60
CCAAACTAAA CCTAAAGCAA GCAAA 85

SEQ ID NO:6740

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07955

SEQUENCE DESCRIPTION:

GATCAGGCTG GTCTCAAACCT CCTCGGTTCAGCAATTCGC CCACCTTGGC CTCCCAAAGT 60
GCTGGGATTA CAGGGGAGCC ACTGCACTGG CCTTCATTGT CTTTTGCTG CACAACCTAA 120
AAAACCAAGT ACCCTGTATT GGAAA 145

SEQ ID NO:6741

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07956

SEQUENCE DESCRIPTION:

GATCCTAACA TGTATTGATT GTAAAAGTGA AATATGTAAT AGCCACACTT CACTGTTTAA 60
AAATAAAAGT GCAATTTCAA A 81

SEQ ID NO:6742

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07957

SEQUENCE DESCRIPTION:

GATCTGTCT CCAATTAAAC CGAGGCTTTC ACCGATAAAA AAAAAACAAA 50

SEQ ID NO:6743

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07958

SEQUENCE DESCRIPTION:

GATCTGATGA AGTATATNTT TAATTGCCAT TTGTCCTTT GATTATATTG GGAAGTTGAC 60
TAAACTTGAA AAATGTTTTT AAAACTGTGA ATAAATGGAA GCTACTTTNA CTAAG 115

SEQ ID NO:6744

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07959

SEQUENCE DESCRIPTION:

GATCGGGCTA CTACAAAGTT CTGGGAAAGG GAAAGCTCCC AAAGCAGCCT GTCATCGTGA 60
 AGGCCAAATT CTTCAGCAGA NGAGCTGNNG AGAGATTAAAG AGTGTGGGG GGGCCTGTGT 120
 CTTGGTGGGT TTAAGGCNCA TTGGNGGNA NTTATTNAA TTNTACTTC TTTN 175

SEQ ID NO:6745

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07960

SEQUENCE DESCRIPTION:

GATCAAAAGT AACACGTNNA GACTCTGAGC TTAATCCATT AAATGGATT NAGCATCTAA 60
 A 61

SEQ ID NO:6746

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07961

SEQUENCE DESCRIPTION:

GATCATNAAC TACTGTGGT ATNTGGAAGT CTAGGTTCTG GTCCTGCTAC CCCTTTAACT 60
 TGAGTNATTT ACAAGTCTGT TTAAGGTTT CTAGACATAC ACTGGTTTGN TTTTAAA 118

SEQ ID NO:6747

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07963

SEQUENCE DESCRIPTION:

GATCGCCCAA CGTTTTGGN TTATAGAATT ATTATTCCT GCTTCTTTC TTGGGTCTT 60
 TTGAATTTCT TTGGTTTCGT NTTAAGAAG TAACCCANCA TTCCTACAA CACTAAATAA 120
 AATGGTACTT ACCTTCAAA 140

SEQ ID NO:6748

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07964

SEQUENCE DESCRIPTION:

GATCCCCGTT CCACCCCAAG AGAACTNGCG CTCAGTAAAC GGAACATGC CCACTGCAGA 60
CACGTAAA 68

SEQ ID NO:6749

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07965

SEQUENCE DESCRIPTION:

GATCCCCCT GCCTATCAGC TTCTCCTGTG GNGCCTGTTC CTCACTGGAA ATTGGCCTCT 60
GTGTGTGTGT GTGTGTGTN 79

SEQ ID NO:6750

LENGTH:28

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07966

SEQUENCE DESCRIPTION:

GATCGAAAGG GAGGCAGGTT TGCCTAAA 28

SEQ ID NO:6751

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07967

SEQUENCE DESCRIPTION:

GATCTCAAGC CAGCCCNCTC CAGCTCATGA CACTGTTTGG CCTTTCTTGG GGAGAAGGCG 60
GGGTATTCCC ACTCACCAGC CCTGGCTGTC CCATGGGGAA ACCCTGGAGC CATCCCTTNG 120
GAGCCAACAA GACCGCCCCA GGGCTATAGC AGTAAGAACT TTAAAGCTCA GGAGGGTGAC 180
GNCCAGATNC GNCTGCTGGG AAGAGCTCCC CTNCACAGCT GCAGCTGAAT GCATTAGGGC 240
TACCGNAGGN CCCGGACTTA NCAAACTTGG NCNACAANNG TTCCTAGGGN TTTN 294

SEQ ID NO:6752

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07969

SEQUENCE DESCRIPTION:

GATCCCCAAG TGTGAACAGT CTGAAAAGGG CTTTTGCTT GCTGCAGGGA CCTGAGAATT 60
GAGAAACAGC TGTGAACTT TGAACCTGG CTGGAAGGTC CTGGTATTGA CTGTGGCANG 120
AAAACGGGGG AGCTAATCTG TAATCTGCTT AGACGCCAAA 160

SEQ ID NO:6753

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07971

SEQUENCE DESCRIPTION:

GATCAGATTC ACGGACCCAG AGCTTTTCCA TGTGTTTATA TTGTAAATAT TTTTNATTTC 60

ATCAAATTAT TTATTCATTA AAAGAAATTT TTGTGAAA 98

SEQ ID NO:6754

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07973

SEQUENCE DESCRIPTION:

GATCCTGTCT CITAGGAAAA AAGAAAACCT CTAAA 35

SEQ ID NO:6755

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07974

SEQUENCE DESCRIPTION:

GATCAAAGAC CCTGCCTCTA TTTNACCCCG CACTGACTGA ATAAAGCTCC TCTGGCCGTT 60

NAAA 64

SEQ ID NO:6756

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07975

SEQUENCE DESCRIPTION:

GATCATCTGA GCTGAAGAAA TAAAAAACA CACACAAA 38

SEQ ID NO:6757

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07976

SEQUENCE DESCRIPTION:

GATCATTCAT ACACATATAT TATTTTINCA TTAAANTATT TTAAACCTT TGGAAA 56

SEQ ID NO:6758

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07977

SEQUENCE DESCRIPTION:

GATCTTTCAT CAAGATTTTA CCTGCATTTA TGTCTAAGGG TCCCTGATAA GGCTTGAGGC 60
 ATGTAACCTA TGTCTAATTA AAAATGATTT GTTGAATGAA NCAAA 105

SEQ ID NO:6759

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07981

SEQUENCE DESCRIPTION:

GATCTACAGA AGCTTTNATT CTCTTACCTT AACAGTAGTA ATAAAGTTAA CATTNTCACA 60
 TCAAA 65

SEQ ID NO:6760

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07986

SEQUENCE DESCRIPTION:

GATCTGTGTG TTGTGGGAAG AGAATTTTCA ATATGTAAC ACAGGAGCTGT AGTGCCATTA 60
 GAAACTGTGA ATTTCCACAT AAATCTGAAC ACTTGTCTTT ATTAAA 106

SEQ ID NO:6761

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07987

SEQUENCE DESCRIPTION:

GATCTCATGG CTTTGATTGN TTTGGGCTGT TCAAAATGTT TATTGNAAA ACGTATACAT 60
 TAATAAACTT AACAAAGCGN TATAAAATAC AGCGNAATCA CCCAAA 106

SEQ ID NO:6762

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07988

SEQUENCE DESCRIPTION:

GATCGAAAGG GCCACCATGA ACTTGATACG TCCGTGTGTC CCAGATGCTN NCATTAGTCT 60
 ATATGGTTCT CCAAGAAACT GAATGAATCC ATTGGAGAAG CGGTGGATAA CTAGCCAGAC 120
 AAAATTTGAG ANTACATAAA CAACGCATTG CCACGGAAAC ATACAGAGGN TGCCTTTTCT 180
 GTGATTGGGT GGGATTTTTT CCCTNTTAT GTGGGATATA GTAGTTACTT GTGCCAAGAN 240
 TAATTTTGGC ATNATTTCTN TTANTATCAA CTCTGANGCT AACTTGTACT AATCTGAGAT 300
 TGTGTNTGNT CCNANTAANC GTGANGTGAA CCTGN 335

SEQ ID NO:6763

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07989

SEQUENCE DESCRIPTION:

GATCTTGGAG ACAGGCCATC CATCCTGGAG CCTCATGGAA CAGGATGATG GCACTGAGAA 60
AGCCAATGAC CGAATCTCTT TTCTCTGTAA AAATGTAGAC TGAAAAGCCA TGTGTATTTT 120
CCTATGTGCT GTAGCTCTCC TTTGGAAATA AATCACAGGC ATCTGGAAA 169

SEQ ID NO:6764

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07990

SEQUENCE DESCRIPTION:

GATCTGGGCT GCAGGAGCTG GGGCCACCCA CAGCCCCCT ACCGACCTGG TGTGGAAGGC 60
ACAGAACACC TGGGGCTGCG GGAACAGCCT GCGTACGGCT CTCATCAAAC TCACTGGGGA 120
AGAAGTGGCC ATGCGGAANT GGTGCGCTCA GTGACTTNTG GTTNAGGACG NCGNGGNTTG 180
AGGATTGAGA NTACNTATT CATTNACCAC NN 212

SEQ ID NO:6765

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07991

SEQUENCE DESCRIPTION:

GATCATACCA CTGCACTCCA GCCTGGGCGA CAGAGAACCT CTCTAAAAA AAAGGAAAAT 60
NAAAAATAAA TGGGGGCAGA AGCTGAGCCA AGCAGAGGCG GGCAGCTCCT CCTCCAGGGC 120
CCACCTGGCC TGCTGGGGAA A 141

SEQ ID NO:6766

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07992

SEQUENCE DESCRIPTION:

GATCTGTTAT NAAACGAAAC ACCCCCCGTG TTAATAACTT GGTATGAAAT CTGTTTTTAT 60
GAGCCGGGCC CCCTGTGCCT CTAGTATACT TGTATTGACT CTCATAGTTA CCCTTTTAGT 120
TTTACTGTGT TCTGTGAAAA TTTGTAATTG GTTGNGAATC ACTGTGGGCG TCCATTCTTA 180
TTCAACTAAA TCTCCACAGG TTTTGTGAGC TGGTGTGGAT TAGTTTAACT CTTGTATTCA 240
ACCATTAGTG CTACCACCTT CTCACATTAC AATACANTTN CTGGAAGCAA GTACTGCATT 300
TCCTATGCAA CAAAAAAGG GCAAAANTAC ANANATTGCT AAATGATAAA CAAANACTTN 360

SEQ ID NO:6767

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07994

SEQUENCE DESCRIPTION:

GATCAAAAGG GCTATGGGAA GGGCAGACCC CGCCAATGAT TTCTCTTCAC CTGTCTTAAG 60
ATTAAATAAA AAAGAGTGTC CTGGCAAA 88

SEQ ID NO:6768

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07995

SEQUENCE DESCRIPTION:

GATCTTGCCA AGAACCATCA CGTGTTAATT TAGTTGCTTA AACAAAAGGT GTTCTGTTTC 60
TTAAA 65

SEQ ID NO:6769

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07997

SEQUENCE DESCRIPTION:

GATCAGTGGT GAAATATAGT GATTTTNACC TGTGCTTCCA TTCTGAAGTT CTGGAAAGAA 60
GTACTGGATG GACTGAAGTC CAGGACAACG TTCCAAAGAA AGGCAGAGTC CAGGTAGGCT 120
TGGAGGACCA AGCCCTGGAT GAGCACTGGA GGGCAGAGGC CTCAGTGTCC AGCACTGTGC 180
CCTGCACATG GAAAGCCCT ACGTTTGTGG AATNAATGAN TANTAAAAAT ATTTTNATNA 240
GTGAAA 246

SEQ ID NO:6770

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07998

SEQUENCE DESCRIPTION:

GATCCTGTCC CTGCCCTGCC AAA 23

SEQ ID NO:6771

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07999

SEQUENCE DESCRIPTION:

GATCTGTATA TCCTCCAGTC CAAGATTAAA GAGGCGGACT GTGAAA 46

SEQ ID NO:6772

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08000

SEQUENCE DESCRIPTION:

GATCCAAACT CATTCTTNCT GTAACCTCAT GATGACGTAT AACNTTTCC ACCTCACTNG 60
GAGGTTGGNT CTNCATTCTG AAGGCTTCTA TGTATACATA TTAAATAN 108

SEQ ID NO:6773

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08001

SEQUENCE DESCRIPTION:

GATCAACGAC GACCTTTTTC CTTTNNATAC TAAAGTAAGA AATAAGAATG TNAGCCCAAA 60
CTGCACTATT TTGCAGACCC CTACCATTTT ACAAAGTGGT CAGAGTGGAA AATTCCACCA 120
GGGCCTGAGC TGTGAGAAAC ATCCTGTCAG GCAGGNCCCA GGNCTNAACC CCTGGCTGCA 180
CTAANTTNCT TCATNATCAN CAGCCTAACA NACCGTCN 218

SEQ ID NO:6774

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08002

SEQUENCE DESCRIPTION:

GATCAACAGT GCAGAGAATC TAGCAAGTAT AAAAGAAA 38

SEQ ID NO:6775

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08003

SEQUENCE DESCRIPTION:

GATCTGCAAC ATGAANCCCG AGGCATGGGT TGGTGTGATG CCAAGGCAAA GTGGTGAGGA 60
GAAAACAGGA AACGGNCTTT CTCTGAATTG GTAAATGGGA AAGAAGTGAG CAACTTAAGA 120
TTGTCACANT TAATCACAAG TGTACAGGAT TAGACTGGGT TTATATTTAA CTCTTGCTTC 180
ATAGGTGTAC CATTAAAGN GTGTTATNTA NTGCTAAGAA NTAAGTCTT TNATAAGCT 240
TATTNNNAA TN 252

SEQ ID NO:6776

LENGTH:34

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08004

SEQUENCE DESCRIPTION:

GATCAAAGGG AATAAGAGA ACTCTGGCT GAAA 34

2153480

SEQ ID NO:6777

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08005

SEQUENCE DESCRIPTION:

GATCATATNC TTTTCTNTT TTGTTCTTA CAATATCAAT CTAATTTAAT ATTCTCTTGT 60
GAGAACACAA ACATNNGTAA ATTGCTCAGT AGTGGCAGCA GTAAGGN 107

SEQ ID NO:6778

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08006

SEQUENCE DESCRIPTION:

GATCAAGGTT TGTNTGCCCA TTACCTTTCC TCTGCCTGAA AGACGTGTCT CAAGAAAAAT 60
AAATTCTATT TNAGATGCAG GTACTNATAN TAATTCTAAG ANTTGATATC AN 112

SEQ ID NO:6779

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08007

SEQUENCE DESCRIPTION:

GATCAGAGNA AACGNCTTTA ACNCCACCAT TAGCACCCAA AGCTAAGATT CTAATTTAAA 60
CTATTCTCTG TTCTTTCATG GGGAAGCAGA TTTGGGTACC ACCCAAGTAT TGA CTCACCC 120
ATCAACAACC GCTATGTAAA 140

SEQ ID NO:6780

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08008

SEQUENCE DESCRIPTION:

GATCAATCTC ATATTCATTC CCTGGGATGT TTAGTTACCA GTTTCCCAA AGTGTTCTGG 60
TAGCATCTAC CATATTTNAT CAAATCTGTG ATTCCTTTGA TTATNATATG AACCATTATT 120
TTATGTATCA TTAAGAAAAA ATACTGCCAA TTAAACTCTG TCATGNNAAC AAA 173

SEQ ID NO:6781

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08009

SEQUENCE DESCRIPTION:

01946

GATCCAAGTT GAGATTTTAA TTCTGTGACA TTTTACAAG GGTAAAATGT TACCACTACT 60
 TTAATTATTG TTATACACAG CTTTATGATA TCAAAGACTC ATTGCTTAAT TCTAAGACTT 120
 TTGAATTTTC ATTTTAA AAGATGTACA AACAGTNTT GNAATAAATT TNAATTCGNA 180
 TATAAA 186

SEQ ID NO:6782

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08010

SEQUENCE DESCRIPTION:

GATCCATTTC TNATATGTCT TGAAGTACTG TGTCTAGTGG GCAAATGTCA TTGTTACCTC 60
 TGTGTGTAA GAAAATAAAA ATATTNCTA AAGGTCTGTA AA 102

SEQ ID NO:6783

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08011

SEQUENCE DESCRIPTION:

GATCAAGTAG ATTTTTTAAA AATCAGAGTC AATTAATTTT AATTGAAAAT TTCTCTTATG 60
 TTCCAAGTG ACAAGAGTAA GATTATGCTC AATATTCCCA GAATAGTTTT CAATGTATTA 120
 ATGAAGTGAT TAATTGGCTC CATATTTAGA CTAATAAAAC ATTAAGAATC TTCCATAATT 180
 GTTCCACAA AACTAAA 198

SEQ ID NO:6784

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08012

SEQUENCE DESCRIPTION:

GATCAGAGTA AACNTGGAG CTAGATTGAT TACAGAGTGC AAGGACTAGG CACCCCGGGA 60
 TTGGAGAGCA TCCTTGAAAG CAAGGGTTCT TCATTATTT ATAAAAATTT NATTCCTAC 120
 TAGAAGCCCA GCTAAGAGTA TGAAGCAATT AAGACAACAN TCTTTGCTCA AGAATCTCCT 180
 AGACAATCCT GATTCAAGCA CCAGAAACAA AGGGNNAAGA AACCTCCAG TCTNGTGNG 240
 NAAGTNGTAC ACATNTGTC AACAGNTAGG TTNTTTN 278

SEQ ID NO:6785

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08013

SEQUENCE DESCRIPTION:

GATCCCATGT NAGCTACACA GTGCAGAGGC TCTTGATGGT GGAATAAGCA ATTCCTCCC 60
 TCGTGCGCAT CTCAGAAGCC ATCGGTAGGC AAAGGAAAAT ACGCTCAGGT GGTGTGGNN 120

NAGNCTGTNT CAGGCCTACG GAGTCAGCCA GTGGCTAGCG CAAGACCAGT CACTCCCTCT 180
 GCNTTCAGGC TTCTTTCAAT TTCATTATCA TCAAGCAGGA ATTATGTCGT AAGTCACTGA 240
 CCCTAACTGC AGACCATGAA GTAAATTATG TAACTAGGTT TTTNNCTTCT CCAGTGGTGA 300
 CCACCNNCNC NCATNCCCCG GTNANAACCT GGGTTTTTN 339

SEQ ID NO:6786

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08014

SEQUENCE DESCRIPTION:

GATCGCCTAT TACTGACAGT CTCATTGTAG CTCTAAAAAG CCTAATGTAT CCACTGTGGA 60
 ATAAACTCCA TAGACTCAAA 80

SEQ ID NO:6787

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08015

SEQUENCE DESCRIPTION:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCCAAGA GGAAGAAGTC TACACCCAAG 60
 GAGGAAACAG TTAATGACCC TGAGGAGGCA GGCCACAGAA GTGGCTCCAA GAAAAAGAGG 120
 AAATTNTCCA AAGAGGAGCC GGTGAGCAGT GGGCCTNNAG AGGCGGCTNG CAAGAGCAGC 180
 TCCAAGAAGG NAGGAAAAAG TTCCNTTAAG CATTNCCNGG GAGNTTTGAA TTCAAAATTG 240
 GGCATTNTTN TTTGGGGGTT GGGNNATTCC CTTGGCCCN 279

SEQ ID NO:6788

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08016

SEQUENCE DESCRIPTION:

GATCCACTCA CCTCGGCCTC CCAAAGTGCT GGGATTACAG TGCCCGTCCG TGATGATGGG 60
 AACATGNCCG ACGTGCCAG NCACCCCCAG GACCCTCAGG GCCCCAGNCT GGAGTGGCTG 120
 AAGAAACTGT GAGCACCTCC ACTGACAGAG GCGGCCCTC CCACGGCTCC CAATAAAAAAT 180
 GTGAAAACCA AA 192

SEQ ID NO:6789

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08017

SEQUENCE DESCRIPTION:

GATCCGTATC GNTTTAAGAA GCGGACGGAG CTGTTTATTG CCGNCGAGGG CATTACACG 60
 GGCCAGTTTG TGTATTGCGG CAAGAAGGCC CAGCTCAACA TTGGCAATGT GCTCCCTGTG 120

2153480

GGCACCATGC CTGAGGGTAC AATCGTGTGC TGCCTNGAGG AGAAGCCTGG AGACCGTGGC 180
AAGCTGGCCC GGGCATCANG GGACTATGCC ACCGTTATCT CCCACAACCC TTNGACCAAG 240
AAGNCCCGTT TTGAANGTTG CCCTNCGGTT TCCAAAGAAN GTTTATCTCC TTAANGCCAA 300
TCN 303

SEQ ID NO:6790

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08018

SEQUENCE DESCRIPTION:

GATCTAAAA TCAATGAGAA CATAATTTA ATTGGCAGTT CTTCAGAAAA ATGTGAATGG 60
CTTATAACA TAAATGTAAT ACTCAGCTGC TGTCATCATC AGAAGAATGA AGTTGTTTTT 120
AAGCTCTTCA NCTGTCAAGN GTAAGAAGCA ATGTTACTAA TACCGGCAAG NTATGAAAAG 180
ACGCTCATAC ATTGTTGGAA ATNAANGTTG GTATNGCTTT TCAGCGGCCN ATNAACATAA 240
TCCCNNTNTT TCTTCCCTAC NNACTCN 267

SEQ ID NO:6791

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08019

SEQUENCE DESCRIPTION:

GATCATCTGG CAAGACAGCC CAAGAATAAA GCCGTCACCA TGGAGACTAA GAAGNGNCAG 60
AAAGNCACTG GGTCTTCATT GTNTCGTCCA GCTGTTCATG AGGCCTTATC TGAAGCCCAC 120
GTGACCTCCG GNCTACTCAC TTACATGCGN GAATAAAAGC TCTATTTTGT TTTAGGNCCN 180
AAATAANTN 189

SEQ ID NO:6792

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08020

SEQUENCE DESCRIPTION:

GATCTGCTGG CAGAGGNCAA TCAAAAACGA CAACAAGCTT CTTCCCAGGG TGAGGGGAAA 60
CACTTAAGGA ATAAATATGG NGCTGGGGTT TAACACTAAA AACTAGAAAT AAACATCTCA 120
AACAGTAAA 129

SEQ ID NO:6793

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08021

SEQUENCE DESCRIPTION:

GATCAGGACC CACCTCCAGT TCTNCTGAAA GTNTGACAGT GTCCAGCCGG TTCTGCAGCA 60

01949

CTAGGGGAGG GGGCAGATGG TGGTTGCATG GGCTTCCTGG GTCTCCACTC TCCGTCTGGC 120
 CTAAAGGTGA TGTATTTGGT GTTTGGNCCT GCAGTCCCCA CTNTTAAGGC TTAAGGCGGA 180
 TGTGGAACAN CACTTCTTT CAGGAGTAGG TNGTNTACT TGTACCTCAT TTAGGGCTTA 240
 GAAAGTTTN CCNCANACTN NAAAAAN 267

SEQ ID NO:6794

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08022

SEQUENCE DESCRIPTION:

GATCTACAAA ACAGATAGNG NAAAGTACAA CAGAATAGCT CGGGAATGGN CTCAGAAGTA 60
 TCGGATGTAA TTAAAGAAAT TATTGGATAA CCTCTACAAA TAAAGATAGG GGNACTCTGA 120
 AA 122

SEQ ID NO:6795

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08023

SEQUENCE DESCRIPTION:

GATCCCACTT GTAGATGCTT GCACTCACAC AATAAAAACG TCTGNTATTT GCCAAA 56

SEQ ID NO:6796

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08024

SEQUENCE DESCRIPTION:

GATCCGTGGT TCCCTGCAGA CTGGCAGGAG CAGATTCCAA AGGCACAGGA AGAAGCTTGC 60
 AGGTAGAATG TGTTCATTAC CTTCTGCGCA TTATACCACA AAAAAGCTGG GNATAAAAAT 120
 GCTAACCAAA 130

SEQ ID NO:6797

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08025

SEQUENCE DESCRIPTION:

GATCTGCCCC ATGATTGGTT CCTTAGGANC AAGNAATTTA CAAGTAGNAA TTATTCCTTT 60
 CAGAGTAACA TGCTGTATTA CTTCAATCCC TATTTTGTG TGTTCATTT TCTTTGGATT 120
 CCCTATTAC ATTGAATCCT NTTTGCCTT CTGAAACAAT ATTCAGTCAC AAGNGNTTTT 180
 GGTGATGTTG GTCTTTGTAA CAAATNAAAN TTACCTTATA TCCTTCTGGA CAAA 234

SEQ ID NO:6798

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08026

SEQUENCE DESCRIPTION:

GATCACAAGG TCAGGAGTTC GAGACCAGCC TGGCCAATAT GGTGAACCTC ATCTCTATTG 60
 AAAATACAAA AATCAGCCAG GCACGGTGGC AGGCGCCTGT AGTCCACCTA CTCGGGAGGC 120
 TGAGGCAGGA GAACTGCTTG AACCCAGCGG CAGAGGTTC AGTGAGCCAA GATTGAGCCA 180
 CTGCACTCCA GCCTGGTGNT AGNGCGNGCT CTGTCTCTAA ATAATNANNT AAANTNCNTT 240
 AANNNN 246

SEQ ID NO:6799

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08027

SEQUENCE DESCRIPTION:

GATCAGTGTT AAAC TAGATT GTATTCATTA CTAGATAAAA TGTATAAAGC TCTCTGTACT 60
 AAGGNGAAAT GACTTTTATA ACATTTTGAG NAAATAATAA AGCATTTATC TAAA 114

SEQ ID NO:6800

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08028

SEQUENCE DESCRIPTION:

GATCTTTTGT GCCAAGATGC AGGGAAATNA AGAAAGCTCT TTCCAGCTGT TTTNATGGAT 60
 TCATGGAGTG GGCTCATGTT GGGACCAGCT GACTCTGGGN GGAAGACTGC CTCTCCATCG 120
 CTGTGAGAGA GCCTGAAAGG ACCAACAATG AGNTGTTCTT GGGACCCGCC ATGGGGATGA 180
 TTGCTTCTCT AGGCTNCTGG CTGTTGCTGC ATTCTAAGGN TTAACCTCCT GGTCTNATGG 240
 TAGTGANCTT GAGCTTTTNN ATTCNATAGN AGNN 274

SEQ ID NO:6801

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08029

SEQUENCE DESCRIPTION:

GATCTGTGNA GNAATGAAAT AAAATGGAGA AGAAGACAGA AA 42

SEQ ID NO:6802

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08030

SEQUENCE DESCRIPTION:

GATCCAGTTT CAAGAATGGG CAGGTAAACG CAGNANGAGG AAAGGAATGT GGAATGAGAA 60
 CTTGGTGGTT CACCGCTGTA CTATTGTGT AAATGTTTAC GTATGNATA AGCTACATGT 120
 ATGTAAATNT TGCAATACCC CTAACAGTCG AGTAGTAGTC TCCCTTACAG GAATTTTGA 180
 CGGGGTTCTT CATCATCAAT ACCAAATAAN TATATGTAGG NNTGGAAA 228

SEQ ID NO:6803

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08031

SEQUENCE DESCRIPTION:

GATCATATTC TTGAAATTTT TATAAATATG TATGGAAATT CTTAGGCTTT TTTTACCAGC 60
 TTTGTTTACA GACCCAAATG TAAATATTAA AAATAAATAT TTGCAATTTT CTACAGAATT 120
 GAATACCTGT TAAAGGAAAA TTACAGAATA ANCTTGTGAC TGGTCTTGT TTACATTAAA 180

SEQ ID NO:6804

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08032

SEQUENCE DESCRIPTION:

GATCATTCCG AGGTCATTG AGGACGCACA CTGGAGAGAA GCCTTATNAG TGTAACAAT 60
 NTGGA AAAAC CTTCACTTGG TNCTCAACGT TTAGAGAACA TGTNAGAATT CACACGCAAG 120
 AGCAGCTCCA TAAATGTGAA CACTGTGGGA AGGCCTTTAC CTCTTCCAGA GCATTCCAAG 180
 GTCATTTGAG GATGCACACT GGAGAGAAGC CTTATGAGTG TACACAATGT GGANAAACCT 240
 TCACTNGGGG CCTCAANCCT TACNTAATAA TGTGGTN 277

SEQ ID NO:6805

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08033

SEQUENCE DESCRIPTION:

GATCTACCTC AGTATTCAAG TTCAGTGGGG ACACCAGTGG CTTCAAACTT CCTGGTTTCA 60
 TGATATCTTG AGACGCCTTA CAAATGATGG AGGATTCCAA AGAGTTTTTG TTTATTTGGG 120
 TTAATATTTG TTGGTATTTA TGGCATTGGA GATTGAACT AAGNAATGTT TTAATTTATT 180
 ACCTTTACAA CATTATTTA CATTACATAC ATACATTTAC AACATTTATT AATTTATNTT 240
 AAAATAGCAT GNATAAGCCA ATTATNGGTT AGN 273

SEQ ID NO:6806

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08034

SEQUENCE DESCRIPTION:

GATCCACTCT TCTCGNCCTC CCAAAGTGTT GGGATTATAG GCGTGAGCAC ANGCGCCCGG 60
CCTGNTNTGG ATATTTCTTA TAAATGGAAT CATACAGTGC TTNTTTCAGT TAGCATAATG 120
TTTCCAGGT TCATCCAGGT CATAACACAT AATCAGGCTT CATTNTTTT TATTACCANC 180
TAATATTCTA TGAATATAAA NNNACCN 207

SEQ ID NO:6807

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08036

SEQUENCE DESCRIPTION:

GATCCTGAAG AGATTGAAAA AGAAGAGCAG GCTGCTACTC AGCCTGAGGT TGCAGACTGG 60
TCTGAAGGTG TACAGGTGCC CTCTGTGCCT ATTCAGCAAT TCCCTACTGA AGACTGGAGC 120
GCTCAGCCTG CCACGGAAGA CTGGTCTGCA GCTCCCACTG CTCAGGCCAC TGAATGGGTA 180
GGAGCAACCA CTGACTGGTC TTAAGCTGTT CTGTCATAGG CTCTTAAGCA GCATGGNAAA 240
ATGGTTGCTG GCAAATAAAC ATCAGTTTCT AAA 273

SEQ ID NO:6808

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08037

SEQUENCE DESCRIPTION:

GATCTCCAAC ATCTTTGTGT TGAAGGGCCT ACAGAGTAAA CTGTGGGACT CAATAAACAT 60
TCGTTACTTG AAA 73

SEQ ID NO:6809

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08038

SEQUENCE DESCRIPTION:

GATCACAGCA GACAGGGTCG CTGCCCTGAT GCGGCTTACA TTCCAGTGGG TCTAATGACC 60
ATATCTTAGG ACACAGATGT GCCCAGGGAG GTGGTGTAC TGCACAGGAA GTATGAGGAC 120
TTAGTGTCC TGAGTTCAAA TCCTGATTCA GGAATCACA AAGCTATGTG ACCTTACACC 180
AGTCACTTAA CTTGTTAGCC ATCCATTATC GCATCTGCAA AATGGGGATT AAGAATAGAA 240
TCTTGGGGTT AGTGTGGNGA TTAGATTAAG TGTATGTAAG GCACN 285

SEQ ID NO:6810

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08039

SEQUENCE DESCRIPTION:

GATCAGTTTC TGGCACATAA ATGCCTCAAT AAAGATTAA TTACTTTGTA TAGTGCTTTA 60
AA 62

SEQ ID NO:6811

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08040

SEQUENCE DESCRIPTION:

GATCATTGGC TATGACAGAG AACCCGTCTC TCAAGCAGCA GCTCTTCTCC TATGCCATTG 60
TTGGCTTTGC CTGTCTGAGG CCATGGGGCT TTTNTGTTTG ATGGTCGCCT TCCTAATCCT 120
NTTCGCCATG TGAGGNTCCA TGGGGGGTCA CCGGANCTGT TGATACTGCA ACTACACACC 180
ATTNTGGTG CTGGGGTGTG TTAAGATTTA ACCATTNANC ACAACGTTTC TCTNAAA 237

SEQ ID NO:6812

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08041

SEQUENCE DESCRIPTION:

GATCAGCAAA TTTAAGAGAA GACCTAGCTA TGTGGCTGG TTGCTTTCTA TTATCATGGT 60
ATTTGACCAT TTTAGTTTTA ATTCCATGTC AGATAAGTGT AAATAGAAGA GTTTAAAAGC 120
ATGANACATT TCAGANGGTA TCAGTTATAT GATATTCTTT AANCANNTAT GACACATGTA 180
AATCCTCNTG ANTGACAATN CATCTNTNTG TGAAA 215

SEQ ID NO:6813

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08042

SEQUENCE DESCRIPTION:

GATCTAAAAG CCATATCCTG TCTTTGGTGG TGGCCTGGTA GGAATGGCTT GTNCTAGTTC 60
TTCAAAGGTA AGATTGACCA AAGCAAGTTC TCATTGGTGG TCTGTGTTTA CATCTTCCGT 120
GTCAAGNTAT TTTAAAGCAT GNAAATAAAG CCATTCTTGC CCTTTTTCGT GTGTTTGCAA 180
A 181

SEQ ID NO:6814

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08043

SEQUENCE DESCRIPTION:

GATCTCAGGC TTCTGCAGTT CTCATGACTC CTACTTTTCA TCCTAGTCTA GCATTCTGCA 60
ACATTTATAT AGACTGTTGA AAGGAGAATT TGAAAAATGC ATAATAACTA CTTCCATCCC 120
TGCTTATTTT TAATTTGGGA AAATAAATAC ATTCGAAGGA AA 162

SEQ ID NO:6815

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08044

SEQUENCE DESCRIPTION:

GATCTCAGCG GGGAGCCACG TCTCTTGCAC TGTGGTCTCT GCATGGACCC CAGGGCTGTG 60
GGGACTTGGG GGACAGTAAT CAAGTAATCC CCTTTCCAG AATGCATTAA CCCACTCCCC 120
TGACCTCAGC CTGGGGCAGG TCCCAAGTG TGCAAGCTCA GTATTCATGA TGGTGGGGGA 180
TGGAGTGTCT TCCGAGGTTT TTGGGGGAAA AAAAAATTN TAGCATATTT AAGGGAGGCA 240
ATGAACCCTN TCCCCANCT NTTNCCNGCC CAAATNTGTC TCCTAGNATC TTATGTGCTG 300
GGAATAATAG GCCTTNACTG CCNTCNGNT TTATAGGCCN ANGGGTCCCG GTTCCCGGG 360
AACTGGAACC CTTCTGAGG GGAATCCCG GGGCTCAAAT TACCCCNAA AGGAAAGTGG 420
CCAAGGCGGT N 431

SEQ ID NO:6816

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08045

SEQUENCE DESCRIPTION:

GATCTGTTTC TAAAGCGTTA CGCATCTTTN CTGAAGTATG CTGGAGAGCC TGTCCCTTTC 60
ATTGAACCCC CTGAAAGCTT TGAATTTNAT GCACAGCAGC TAAGAAAATT GAGGGAAAAC 120
TCTTCTTGAA ATAACCAGGC GATACTTTGT TTTGTATATA TTTGTGATC TGTGTCTACA 180
TGTTATTTTG AAGTATATCT GAGGGAANNG GGAATGGAAA TTTTCTTTAA A 231

SEQ ID NO:6817

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08046

SEQUENCE DESCRIPTION:

GATCCTTCCA GCTGCTCTTC CATAACTTCA TCTCTCCCCT CAACACCTGC AACCCTAAG 60
CCATTTTCCC CCTACCCGTC TGTAATTTTG TAATTTTGAG AATGCCAGGT AAATGGAATC 120
AGAGCGGATA ATCTTTGGAG CATGAAA 147

SEQ ID NO:6818

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08047

SEQUENCE DESCRIPTION:

GATCATTTAT ATTAAAGTTT AAAAGGAGGN TGAGACTGAG TTTTGTAGA GTTATAATNA 60
CATTCAAAT ATACTTTTTT GCATTGNNA AATGTTAANT N 101

SEQ ID NO:6819

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08048

SEQUENCE DESCRIPTION:

GATCAAGCCA AACAGTAAAA ACTACCAAGA GAACACGAGG AAGGCAGAAA CGNTGTTTAG 60
CAACAGTATT CTGCATGGTT CACTGCTTAA GAAAATGCCT TCTGGAATAT TTGTAACTG 120
AAATTCTGTA TGTGTAAGNG NTGTTTAAAT ATGTTTGGGT CCTAACAGC TTTTAAAAAT 180
TATACTTGGG CNTAANTTCA GCATCTTTTC AAATCANCTC TNTGCNCCGC CGCTGN 236

SEQ ID NO:6820

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08049

SEQUENCE DESCRIPTION:

GATCATTTTG TTTGTTGCTC TCTCTAGTGT CTTCTTCTCT CGTCAGTCTT AGCCTGTGCC 60
CTCCCCTTAC CCAGGCTTAG GNTTAATTAC CTGAAAGATT CCAGGAAACT GTAGCTTCCT 120
AGCTAGTGTC ATTTAACCTT AAATGCAATC AGGAAAGTAG CAAACAGANG TCAATAAATA 180
TTTTTAAATG TNAAT 195

SEQ ID NO:6821

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08050

SEQUENCE DESCRIPTION:

GATCATAAAT ATTTTGTAAT GAAATACTTC CNCTTTTCCA GGGCTTTGTA TGCATTGTA 60
TAATTACATT GATGGCAATG TAGNGTTTGA ATTCAGTCT GTAAATACTT TTNTGGNAAA 120
TAGNAATTTT NATTGCTTTA AAGTTTTGGA TATGGGTGGN 160

SEQ ID NO:6822

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08051

SEQUENCE DESCRIPTION:

GATCTATAGG AAGATTGAAC CTGAATATTG CCATTATGCT TGACATGGTT TGCAAAAAAT 60
GGTACTCCAC ATACTTCAGT GAGGGTAAGT ATTTTCCTGT TGTCAAGAAT AGCATTGTAA 120
AAGCATTTTG TAATAATAAA GNATAGCTTT AATGAAA 157

SEQ ID NO:6823

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08052

SEQUENCE DESCRIPTION:

GATCCAGNTT GTTGCATCAA TAGTTCTGTT TTTAGTACTG AGTGGGATGT CAGTATAGAT 60
GTACCATAGT AAACACCTGT GGAAGGACGT CAGGAATGTT TCCTGTTATT AGGTATCTAA 120
ATAAAGTTGC TGTAACATT TGTGTACAAA 150

SEQ ID NO:6824

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08053

SEQUENCE DESCRIPTION:

GATCTGTCCA CTTTGCTCTC ACGGACGTGG CATTGCCAG GAAGGAGAAC CCAGCAGGAA 60
CGGAGGTCTC TGCCTTCACC TACAGTGAAG GGGCTGGTAT GTGAAATACT TTCACTGAGC 120
TTAGTGAAAA ATTCATTTTA CACCCTAGTT AGCTCCAGA AAGGTTNAAC TTTCAAGANG 180
GTCAAAATAT GNAGCCTGTT ATATGTGTAA TAAAAAAGN NNTAGNATAT CCCAAATGGN 240
ACATTCAGG NATTAANTAA TTGNAATN 268

SEQ ID NO:6825

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08054

SEQUENCE DESCRIPTION:

GATCTGAGAA GTGAGTGTAA GGAGTTTAAA TCAACCTCTG TTCTGTGCTA GTTAAGGTAA 60
TAAAGTTGCT GCAGTCCAGG GGGTAGGTAC CTGTGGACGG CTCTGCCAAT AGGNCAGTTG 120
CATTTCTTGG GAATCAAGTG CATCCCTAGG CTGGCAGTGC AGCAGAAAATA CTGAATAAAA 180
TGTGACAAAT CTCCAAA 197

SEQ ID NO:6826

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08055

SEQUENCE DESCRIPTION:

GATCAAGTAA AAATGAAGGA CAACGTGAAG TTAAAGTTC GATGCAGCAG ATACCTTTAC 60
ACCTGGTCA TCACTGACAA AGAGAAGGCA GAGAACTGA AGCAGTCCCT GCCCCCGGT 120
TTGGCAGTGA AGGAACTGAA ATNAACCAGA CACACTGATT GGAAGTGTAT TATATTAAAN 180
TNCTAAAAAT CCTAAA 196

SEQ ID NO:6827

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08056

SEQUENCE DESCRIPTION:

GATCATCAGT ACTGTTGTCT CATGTAATGC TAAAACTGAA ATGGTCCGTG TTTGCATTGT 60
 TAAAAATNAT GTGTGAAATA GAATGAGTGC TATGGTGTTG AAAACTGCAG TGTCCGTTAT 120
 GAGTGCCAAA AATCTGTCTT GAAGGCAGCT ACACTTTGAA GTGGTCTTTG AATACTTTTA 180
 ATAAATTTAT TTTGATAAAT AATATTGAAC AAA 213

SEQ ID NO:6828

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08057

SEQUENCE DESCRIPTION:

GATCGTCCTG CAGGTATTTT GCAAGCCCCCT ACTGTCCGCC GACATCAGCG TGAATCTCAC 60
 ATGGTGCACT TGGCTCCCTG GGGGAGTNTT NGCNTCTCCT GTTGTCTTTT CCCAAAACCA 120
 NTAAAAACCA TGN 133

SEQ ID NO:6829

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08058

SEQUENCE DESCRIPTION:

GATCTGCTAC ATTTTAAAAG TGGGCATGAA AATCTTCTGT TATGTATGTA CTGTCATTAA 60
 TTCTGTTATT TTNCCCACT AGTACTATCA ACTACAGTAA AGACCTTCCT CTGGCCCAAG 120
 GAATCAAGTT TCAGTAAAGG TGTTTATAGAT GANCATCCCT TAATTTGAGG TGTTCAGCA 180
 GCTGTTTTTG GNGANGACAA AGNAAATTAA NGTTTTCCCT GAATAANTGC ATTATTNTGA 240
 CTGTGACAGT GNCTAATCCC CCTATGGTN 269

SEQ ID NO:6830

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08059

SEQUENCE DESCRIPTION:

GATCTATCCA ATAAAGGAGA GAAACAACCG CACACGCCTG GCTCTCATCA TATGCAATAC 60
 AGAGTTTGAC CATCTGCCTC CGAGGAATGG AGCTGACTTT NACATCACAG GGATGAAGGA 120
 GCTACTTGAG GGTCTGGNCT ATAGTGTAGA TGTAAGAGAG NATCTGACAG CCAGGGATAT 180
 GGGTGCAGCG CTGAGGNCAT TTGNTACCAG ACCNGNGCAC AAGTCCTCTG NCAGCACATT 240
 CTTTGGTACT CATGTNTCNT GGCATCCTGG NGGGGTNTCT TGCGGAACTT GTTCTGN 297

SEQ ID NO:6831

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08060

SEQUENCE DESCRIPTION:

GATCATGGTG GTTTGGCAGC AGGGAATTTG TCTTGTGGA GCCTGCTCTG TGCTCCCCAC 60
TCCATTTCTC TGTCCTCTG CCTGGGCTAT GGGAAAGTGGG GATGCAGATG GCCAAGCTCC 120
CACCTGGGT ATTCAAAAAC GGCAGACACA ACATGTNGCT CCACGCGGCT CAAA 174

SEQ ID NO:6832

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08061

SEQUENCE DESCRIPTION:

GATCAATTTT GGAGACCTTG GCCGCCCAGG ACGTGGCGGC AGGGGAGGAC GAGGTGGACG 60
TGGGCGTGGT GGGCGCCCAA ACCGTGGCAG CAGGACCGAC AAGTCAAGTG CTTCTGCTCC 120
TNATGTGGAT GACCAGAGG CATTCCCAGC TCTGGCTTAA CTGGATGCCA TAAGACAACC 180
CTGTTTCCTT TGTGAACCTT TCTGTTCAAA GCTTTTGCAT GCTTAAGGAT TCCAAACGNC 240
TACTGTAATT AAA 253

SEQ ID NO:6833

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08062

SEQUENCE DESCRIPTION:

GATCATGAAC CAAAGGAATT TATGTTTTGT AACTTGGGTA CTTTATTTTG CATTTTGTTA 60
TACTATTAAA TANTTTTNTC CTGAAA 86

SEQ ID NO:6834

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08063

SEQUENCE DESCRIPTION:

GATCCAAGTT TCACTTTTGT TGATATAATG AGCCAGTTTT CTCAGTAATG TCTACTAAAA 60
AAAAAGCCAT TAACNGGNT CTAATATTG CATGATTCTA ATAAANGTAT GTCAACTTCT 120
TAAA 124

SEQ ID NO:6835

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08064

SEQUENCE DESCRIPTION:

GATCCCCTCA GAAGGCAGGA GTGCTGCCCT CTCCCATGGT GCCCGTGCCT CTGTGCTGTG 60

TATGTGAACC ACCCACGNGA GGGNATAAAC CTGGCACNNG GACCAAA

107

SEQ ID NO:6836

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08065

SEQUENCE DESCRIPTION:

GATCCTCCTG TCTTGGTTTC CCAAAGTGCT GGGATTGCAG GTGTGAGCTA CTGCACCCGG 60
CCCAATAAAA AAATCTCGTT CTGTGAAAGA AATGTTTAAT AAAAGTTGTA TTGTCAAATT 120
TTAAA 125

SEQ ID NO:6837

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08066

SEQUENCE DESCRIPTION:

GATCACTAAG ATTAGCTATA TCTATACAGT CATTAGTTTG ACAAGAAATA GNATCCTGTC 60
AGATGCCAAA GAGTGGGATT TTNATGTTTA ATGATTAAAC ACCATTATTT ATTGACAATT 120
TACCTGTGG AACTGTATTA TTTCTAACTA TGAAATAAAG GGGTGATGTA AACACAAA 178

SEQ ID NO:6838

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08067

SEQUENCE DESCRIPTION:

GATCCCCGGC CAAGCCAGT CACGNGAATT TAAGGCTCTT CTCTCCGGCT CCAGCCTGTG 60
CCTGTAATTG TCCAGGANTG GCCTAGGCCG ACACCTTCTG CTGCCCCGGA GTCCCTCCC 120
TGGGTGGGAT GCTCACTACA GCTCTGATGT ATATAGCACA CAGCCCAANT CCGACCCTCC 180
GGTCTGTCGC CAATAAAGNG GGGTGTGTTT CANTCCGGGA AA 222

SEQ ID NO:6839

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08068

SEQUENCE DESCRIPTION:

GATCCCAACA GGCCCTGGCA GCGTCTGGAC ATGTGTAAAC AGCAGCAGTC ACGTTCCTCG 60
GCTGNCACAA CCAACACNNN AGCAGGTTTT CCATTTTCTG TACTTTNATA TTTCTGTTCA 120
ACCTGTTGGT TTCTACAATG ATTTTAAACA TTGGNAAGNC AGCCTTGNGT ATATTTTAA 180
AAATTATATT NAAAATGN 198

SEQ ID NO:6840

2153480

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08069

SEQUENCE DESCRIPTION:

GATCATGAAA CTTAGTAGAG GGGATTGTGT GTATTTNATA CAAATTTAAT ACAATGTCTT 60
ACATTGATAA AATTCTTAAA GAGCAAACT GCATTTAATT TCTGCATCCA CATTCCAATC 120
ATATTAGANC TAAGNTATTT ATCTATGAAG ATATAANTGG TGCAGAGAGA CTTTCATCTG 180
TGGATTGCGT TGTTTCTTAG GGTTCCTAGC ACTGNTGCCT GCACAAGCAT GTGNATATGT 240
GANATNNNAT GGATTCTTCT ATAGCTAAAT GNGTTCCTC TNGN 284

SEQ ID NO:6841

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08070

SEQUENCE DESCRIPTION:

GATCCACCTG CTTGGCCTC CCAAAGTGCT GGGATTACAG CTGTAAGTCA CTGATNCCGG 60
NTGCATGTCA AGCACATTGG NAAGTCTTA CAACAATTCT GNTGGAGGNT TTTN 114

SEQ ID NO:6842

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08071

SEQUENCE DESCRIPTION:

GATCTGTCTC TCAAAGGAAG AAACAAAAAC CCAAAATTTT GACTGCAAAA GATTGACTAA 60
TTCTAGGTGC AAATAACTGG AAATTTAGGA TTGTTATTGT ACTACACAGG TCACAANGTT 120
CCAAACCTAT TTCCCTTGTA ATTTTATGTG CATGATTTT CAGAATGCAG TTTCTATCTT 180
TTTAGGTGCA ATATTACGAA CTGCTTAGGT CAGANCANTT TNGTNTCTCC AGTTTTTCT 240
CCCTANGTTA CAN 253

SEQ ID NO:6843

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08073

SEQUENCE DESCRIPTION:

GATCTTATAA CCTCATTGTT TCCTAATCAT TTTATTTTAT CTCCTGCTAG TACTGTGCCG 60
CTTCCCCCTC CCCCCACACA AAATAAAAAC AGTATCTGCC AAA 103

SEQ ID NO:6844

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

01961

CLONE:HUMGS08074

SEQUENCE DESCRIPTION:

GATCCGTGCC CCACCTCTCC CCAGTTAAGT GCCTTCACAC AGCACTGGTT TAATGTTTAT 60
AAACAAAATA GAGAACTTT CCTTATAAAT AAAAGTAGTT TGCACAGAAA 110

SEQ ID NO:6845

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08075

SEQUENCE DESCRIPTION:

GATCAGGGCT GAGGGTAAGG AAAAGAAGAG ACTAGGAAAG CTGGGCCCAA AACTGGAGAC 60
TGTGTGCTT TCCTGGAGAT GCAGAACTNG GCCCGTGGAG CAGCAGTGTC AGCATCAGGG 120
CGGAAGCTTT AAAAGCAGCA GCGGCNTGTG CCCAGGGCA CCCAGAATGA TTTCCCTATG 180
GGCACCAGGC CAGNGAAAAA ATTGGGCAGC NTCTTTAAAG GGNNGAAAAT TGTTTTGAGC 240
CCCAAA 246

SEQ ID NO:6846

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08076

SEQUENCE DESCRIPTION:

GATCTACCTG CATATAACAG TCTCTAAGTT TTTTTTCAA TCTTGCANTT TGATAATTTT 60
GATTTTGGCC ANATTAGNNT AATTGGGAC TATCCTGAAA CAGNN 105

SEQ ID NO:6847

LENGTH:26

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08077

SEQUENCE DESCRIPTION:

GATCAAAAGA GCTGTCTGAC TGCAAA 26

SEQ ID NO:6848

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08078

SEQUENCE DESCRIPTION:

GATCCCTTGA GCCCAGGAGT TCCAGACCAG CCTGGGAAAT ATAGGGAAAC CCTGTCTTTA 60
CAAAAAAAAA TTTTAAAAAT TAAA 84

SEQ ID NO:6849

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08079

SEQUENCE DESCRIPTION:

GATCAGATTC CTGACTAACC CCTCTCTTAG AGCTACAGCG AGCTGCATTA CCAGCTTAAA 60
 ACACTTCTTA GGGATTAAAT ATAGNTGTNA TTTTCAAAA TCGTTTTTAA TTAAACTGT 120
 GTTTTAGTGT AAAATTGTTA ACCTTGTAAG ATGGATANTG TGTATANGAN TGTAGGCCTT 180
 AACTATTCA CATGAGTCAA ANCANGGCNG CTTTAAAN 217

SEQ ID NO:6850

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08080

SEQUENCE DESCRIPTION:

GATCTCACCC AGTGTGCAAT TTGTGAAAAT GAACCAAATG TCATTACTTT TGTCTTAAAG 60
 CAAAGTCTAT TTCAAGNATA TGNACAGCAN AAA 93

SEQ ID NO:6851

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08081

SEQUENCE DESCRIPTION:

GATCAATGAA CCATCTCTTC TGGGCAGTTT TGTTGAAAAT AAAGGTTTCT CTTTGATTTC 60
 AAGAATGACC AAA 73

SEQ ID NO:6852

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08082

SEQUENCE DESCRIPTION:

GATCACCGGT TTCCGACTGA GTCTGGGGAT TTNGGCCTTG TTGAACCCCTC CTACGGTGCC 60
 CNGGGAATTT GAAANACGCT TTCTGCATNG ATATNTGGGC CCTN 104

SEQ ID NO:6853

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08083

SEQUENCE DESCRIPTION:

GATCAACATC ATTAAAGATT ATGTAAAAAG TTTAAAGGCT TATGAGCCTA AGTTTGTTC 60
 TATATTACCA TATTTACTGA ATNTTCTGGN AAAGNAACTT TANTAAAGTT TAATCTNAGG 120
 AAA 123

SEQ ID NO:6854

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08084

SEQUENCE DESCRIPTION:

GATCACTTGA GCCTAGGAGG CAGNGGTTCA AGTGAGCTGA GATGGCACTC CTGCGCTCCA 60
GCCTNGGTGA CAGCGTGAGA NNCTGTCTCA N 91

SEQ ID NO:6855

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08085

SEQUENCE DESCRIPTION:

GATCTGTCAG NACCATTGGA AAACCTGCTC AAGAGCAGTT GCTTATATAT AGTAGGATTT 60
TACTTTTTCC TGCTTATGTA NTACTATATG CTTAAAAAAC CTGGAGGAAT ACTTACCAAA 120
GAGGAGTAAC CATCTCTGAG GGTGGGATTG TGGGGGANTT TTTGTTTTTT TCTGTTTTCT 180
ATANTGTGCA NCTNTNTAG TATGTNTNTT NCTAATTGN 219

SEQ ID NO:6856

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08086

SEQUENCE DESCRIPTION:

GATCTTNCTC CATTACAGT ACATTCTTAG GATGTATGTA GTAAATAAAG CTTTCTTTAA 60
AGCAAA 66

SEQ ID NO:6857

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08087

SEQUENCE DESCRIPTION:

GATCACCCCG TAGGAAATAA AGCAGGCATC TCTGGACCTC AAA 43

SEQ ID NO:6858

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08088

SEQUENCE DESCRIPTION:

GATCAAAAGA CAGNTAAATN TTTCTTCTAG AACACAGTTA CCCCCTTGCT TCATCTATTG 60

CTAGAACTAT CTCATTGCTA TCTGTNATAG ACTAGTGATA CAAACTTTAA GAAAACAGGN 120
TAAAAAGATA CCCATTGCCT GTGTCTACTG ATAAAATTAT CCCAAAGGTA GGTGGGTGTG 180
NTAGTTTCCG NGTAAGACCT TAAGGCCACA GCCAANCTCT TAAGTACTGT GTGNCCACTC 240
TTGTTGTTAT CACATAGTCA TNCTTGTTG TACTATGTGA TGGTTAACCT GTAGCTNATN 300
ANTNTACTTA TTATTCTNTT CCTCCTTTAC CTCANCN 338

SEQ ID NO:6859

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08089

SEQUENCE DESCRIPTION:

GATCGTTTGC AAGTAACTGA ATCCATTGCG NCATTGTGAA GGCTTAAATG AGTTTAGATG 60
GGAAATAGCG TTGTTATCGG NTTGGGTTTA AATTATTTGA TGAGTTCCAC TTGTATCATG 120
GCCTACCCGA GGAGANGNGG NGTTTGTTAA CTGGGCCTAT GTAGTAGCCT CATTNCCAT 180
CGTTTGTTAT ACTGACCACA TATGCTTGTC ACTGGGCANG AAGCCTNTTT CNGCTGCCTN 240
CACGCANTTT N 251

SEQ ID NO:6860

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08090

SEQUENCE DESCRIPTION:

GATCTTAATA TAAATNCACT TTCATTTTNN ATAGCTGTCC CATCTGGTCA TTTGGTTGGC 60
ACTAGACTGG TGGCAGGGGC TTCTAGCTGA CTCGCACAGG GNTTCTCACA ATAGCCGATA 120
TCAGAATTTG TGTGAAGGA ACTTGTCTCT TCATCTAATA TGNTAGCGGA NAAAGGAGAG 180
GAACTACTG CTTTAGAAA NTATAAGTAA AGTGATTAAA GTGCTCACGT TACCTTGNCA 240
CATAGTTTTT CAGTCTATGG GTTTAGTTAC TTTAGNNGGG NAGCNTGTNA CTTATATTAN 300
TAGTANTTTN GTAAAGTTGG NTGGATAAGC TATCCATGTT GCCAGGTTCA TGGATTNGN 359

SEQ ID NO:6861

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08091

SEQUENCE DESCRIPTION:

GATCCCCAAA CCACAAATAC ATATGTGTGC CTAAGTTTGT GCATGCATAC ATTAAACAGG 60
ACATAAAGTG TAAA 75

SEQ ID NO:6862

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08092

SEQUENCE DESCRIPTION:

GATCATCATG GCAAAACCAG CTGGTGGGCC CAAGCCTCCA AGTGGGAAGA AAGACTGGGA 60
 TGATGACCAA AATGATTGAA ATTGGCTTAA TTTTACTGT AGGTGAAGGC TGTATTGTA 120
 GTAGTACTCA AGAATCACCT GATGTNTTCT TATTCTCCTT AAATTAAGAG TTATTTGTN 180
 TTTGTNTTCT TGGCTGGATG TTATAATAAN CATATTGTNA CTGTCAAA 228

SEQ ID NO:6863

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08093

SEQUENCE DESCRIPTION:

GATCATGCCT ACTTCTTCT NTGTATCTCC CTCCTTCCA GCCCACC CGG GCAGCAGACT 60
 CTNATGGAAG NAAGGTGCCG TAGTGGGNTT TTAGAACTA ACGGGACTGG TTTCAAAGC 120
 AGTTATCTTG GAAACTGTT TATTCCAGCG ATGTGACTTT TTTNAGAATA TTTCTTGAA 180
 TCATATTCAG AGTCTGGGGC TGTGTGTGA GCAGCCTTAA GGNTGCTAGA CACTCATTTA 240
 GTGCCAGGG AGTCCAGCGA ATGACGTCTG TGGCCAAGCG AGGTCTCAGG TGCAAAGCN 299

SEQ ID NO:6864

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08094

SEQUENCE DESCRIPTION:

GATCCTCTGA ACCTGCAGAG GCCCNCCTCC CGAGCCTGGC CTGGCTCTGG CCCGGTCCTA 60
 AGCTGGACTC CTCCTACACA ATTNATTNA CGTTTTATT TGGTTTTCCC CACCCCTCA 120
 NGNNTGTCGG GGAGCCCTG CCCTTNACCT AGCTCCCTTG GCCAGGAGCG AGCGAAGTGT 180
 NGGCCTTGGT GAAGCTGCCC TCCTCTTCTC CCCTCACACT ACAGCCCTGG TGGGGGAGAA 240
 GGGGGTGGGT GCTGCTGTG GTTAGTCTT TTTTTTTTT TTTTNTTN TNANAAA 298

SEQ ID NO:6865

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08095

SEQUENCE DESCRIPTION:

GATCTGCGGG GCAANTTCAA GCNNNCCCCA CTGCGGAGGG TGCGCATGTC GNCCGATGCC 60
 ATGCTCAAGG CCCTGCTGGG CTCGAAGCAC AAGGTGTGCA TGGACCTGAG GGCCAACCTG 120
 AAGCAGGTCA AGAAGGAGGA CACAGAGAAG GAGCGGGACC TGCGAGACGT GGGTGACTGG 180
 AGGAAGAACA TCGAGGAGAA GTCTGGCATG GAGGGCCGGA AGAAGATGTT TGANTCCGAG 240
 TCCTAGGCCA CTCGCTGCCC CTACGNCTGC CCCGGTGCCC GGTCCCAGC AGAANN 296

SEQ ID NO:6866

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08096

SEQUENCE DESCRIPTION:

GATCCTGTTT TGTCAGCTGC ACCCTGAGCA AAAACTTGCC ACACCAGNGC TCCTAGAAAC 60
 AGCCCAGGCT TTGGAGCGGA CCCTGAGGAA GCCTGGGAGG GGTGGGATG ACACGTATGT 120
 CTTGTCAGAT ATGCTCAAGA CGGTGAAAAT TGTGTGACTG CTTAGGCCAA GCAGCCCTCC 180
 TGCCTAGAAT GACCTTGGAC TCCCAGCCTG CCAGNGAATG NAGAAATACA ACGCACAGTA 240
 CTTTTGAAGC TTCGTATTTT TCTTGGTTTC AACTCAGCT ACATGTGACC TCCAGCTTGG 300
 TCGGGTTAGN 310

SEQ ID NO:6867

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08097

SEQUENCE DESCRIPTION:

GATCAGTTCA AGAAGGTAAT CCAAGGGCCT GATGACTCTT TTGGTAACCA GACACCAATC 60
 AAATAAGGGG AGGAGATGAA AATGGAATNA TTTCTTCCAT GCCACCTGTG CCTTTAGGAA 120
 CTGCCCAGAA GAAATCCAA GGCTTTAGCC AGGAGCGGAA ACTGACTACC ATGTAATTAT 180
 CAAAGTAAAA TTGGGCATTC CATGCTATTT TTAATACCTG GNTTGCTGAT TTNCAAGAC 240
 AAAATACTTG GGGTTTCCA ATAAAGATTG TTGTAATATT GNAAA 285

SEQ ID NO:6868

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08098

SEQUENCE DESCRIPTION:

GATCAGACTC TGTATCAAAA GTACCTTTGC CCTTAGGAAG AGTGAGTATT GGAGTCATCT 60
 TATCTATTAC TCCAAACCTC CCTTTTNATT TCTTGAGCCT GGCTTGGACC TTGGCATTC 120
 GTTTGANTTC CTTCTAAGTG GAACATTTGT GTTGATCTG TAACACTGGC ACTGAAATAA 180
 AGACCACACG GTTAAAGNAA A 201

SEQ ID NO:6869

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08099

SEQUENCE DESCRIPTION:

GATCATGTGC TGCCTTTTAC TGCTGAATTA AAACAGATAT TTCACGNAAA 50

SEQ ID NO:6870

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08100

SEQUENCE DESCRIPTION:

GATCTTCAGT GTAAATNACC ATGTATAAAC TGTAAGTGC AAA

43

SEQ ID NO:6871

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08101

SEQUENCE DESCRIPTION:

GATCATTTAA TATATTCATA TTACCAAGAC TATTATACTG GAAGTGGTTT TTGTGTTATA 60
AAGGTTTAAT TTTACATANG GCAGTTACTT AATGTGATT TNAACCCTTA AAAAAGTGGA 120
GATGTATACA TTTGTTAACA ATGCCATGAA AGCATTNCT TTCTCCTAAG GAAAAGTGAA 180
TTTCTTATCA GAATATCTGG CTGGCCCTGT AATTAAATT AAAATAAANT TTGGCGNAN 240
CAGCAAA 247

SEQ ID NO:6872

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08102

SEQUENCE DESCRIPTION:

GATCTATCTG AGAACAAAGA AGTCGACAGA ATAACATTGA TGACTTTTAA AATAATTAAT 60
TTATTGGAAG AATGCTTGCA TACAAAAAGC TTCCTGCAGG AATTTTAAAC AAGCTGTCCT 120
TGTTATCCC AGGCAATGTC AGTTGATTAA NTAAGTTTA CATGCAAAAG NGAATACAAT 180
TGTAACATTA ATTGGAACAT TAAGTTGGCT TATAAGCAGT ATTTCCACTG CTCCTACAAT 240
TGNTTTNNGT TATTGATAN TTNATTTNAN ATTNGTNTT GGTGTGGN 288

SEQ ID NO:6873

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08103

SEQUENCE DESCRIPTION:

GATCGTACCT ATTGCACTCC ATCCTGGATG AAAGAGCCAG ACTCTGTCTC AAAACAAACA 60
AAAAGCGTG GGGACTTCTG GGGACAGACA AGGTGCCTGT AATATATTN CTCAGTCTTT 120
GCCCTGAATG GTCTCAGCTT GANACCATNT CAACTGGAG AGAAGCAAGC CAGCCAATAG 180
AATGGGGTGA TTTACAGGGA TTTCTGTTA CTGTCAAAT ATTTCTCATC TGCACTATGT 240
TTCCATTGT GGTCTGAAG GAAATTCTTA TAACTCAACA TTTGTCTGGT CTTN 294

SEQ ID NO:6874

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08104

SEQUENCE DESCRIPTION:

GATCCGACAC TCCAGGCAGA GCAGAGGGCA GGAGAGGCC AAAGAGCTAG GTCAAGCAGC 60
 TGGCTCCCTT GGAAGGGGAG CCGGGAGACA GGGAGGTCCT CACACTGCCC CCGTGGCCAC 120
 GCATGGCTGT CTGCACACTC CATCAGGAGG AAGGGCAGGG GAGAAGTCAC ATGCNGTACA 180
 GTGAAACTNA TCAGTGTAC ACACGCCAG CAGGAGGGGA GAGCTCTGCT CCACACGCTG 240
 GCGGCCTTGG CTGCTCCANA GCAATCCGNT TGCTCCANCT TCAAGCCATT GGGGN 295

SEQ ID NO:6875

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08105

SEQUENCE DESCRIPTION:

GATCCTGTAT TATCCATCTA CATCAGAACC AAATACTTC TCCAACACCC GGCAGCACTT 60
 GGCCCTGCAA GCTTAGGATG AGAACCACTT AGTGTCCCAT TCTACTCCTC TCATTCCCTC 120
 TTATCCATCT GCAGGTGAAT CTTCAATAAA ATGCTTTTGT CATTCAAA 168

SEQ ID NO:6876

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08107

SEQUENCE DESCRIPTION:

GATCCTTGAG ATGACTGTAG CCCTGGCTGA CAACTTNATT GCTGCCTGTN AAGGACCCTG 60
 AACCAGAGGA CTCAGCGAAA TTGTGCCAG ATCCTGACC TACAGCGGCA GTGAGATAAT 120
 AAATGCTGTT GAGGTCACAA A 141

SEQ ID NO:6877

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08108

SEQUENCE DESCRIPTION:

GATCTGCTCA CCCTCGGTNC ACANCAGTGT CAGCCATGCA AGCAGGACAG AATGGTGACT 60
 GGGTGCCCAT NGTGAGCTGT GTATTTCTTA GGAGGTAGAA AACAATAAAA AATTGCATGC 120
 TAAA 124

SEQ ID NO:6878

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08109

SEQUENCE DESCRIPTION:

GATCCTCTG CCTCAGCTC CTGGGTGGCT GGGACTGCAG ATACATGCCA CCATGCCGGA 60
 CAAATTTNTT GTATTTNAG TAGAGATGGG GTTTTACCAT ATTGCTCGGA TTGGTCATGA 120

ACTCCTGGAT TCAAGCAATC TGCCACCTA GCCTCCCTAA GTGCCTGGCC AAATTTTGG 180
 TTTTAATAGT CGATTTGTGT ATATTTTGTG GTAGTATCTA CATATATTTA ATACATTTAT 240
 NTGTTGNTGN AAAAAGTANA ATTTGTAAAA NNTTTGNAAA 280

SEQ ID NO:6879

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08110

SEQUENCE DESCRIPTION:

GATCATTGTT GAACTTCAGC TCCAGTGTCT CTCCAGAATA AGACATTGGC ATTCAAATGT 60
 CTATATCTTG TTAATTACAA AATAAAAAAC AGATTAATTA GTGGCTTTTA AATTGTAGTT 120
 ATATCNGTGT ATATACACGC GGGGNACTGT ATAAAGACAT ACTAAAGGGC ACAGATTAAA 180
 ATAAGTATTA TTANTAAA 198

SEQ ID NO:6880

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08111

SEQUENCE DESCRIPTION:

GATCAAAGTT GTTAAATTA TAAATNTATG ATGCAGNAAT AAAATTGATA TATTTTGATA 60
 TTCAAA 66

SEQ ID NO:6881

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08112

SEQUENCE DESCRIPTION:

GATCTCTTAC CTTTGAAAA TAGGGGTTAG GCATGAAGGT GGTGTGATT AAGAAGATGG 60
 TTTTGTATT AAATAGCATT AANCTGGAAT TGACAAGAAA 100

SEQ ID NO:6882

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08113

SEQUENCE DESCRIPTION:

GATCAAAGAA ATAATTCTTT TGCCACTAAA 30

SEQ ID NO:6883

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08114

SEQUENCE DESCRIPTION:

GATCACTACA ACAATTTGNC TGCCTCCAAG GTCCTCTGAG GCAGAAGGCT CTGGGGNTTC 60
 TGCTGTCTT TGGNGGGTGT CTTCTGGGTA GAGGGATGGG AAGGAAGGGA CCCTCACCCC 120
 NGGCNCCTTCT TCTGACCCTG CCACTAAAAA ATTTATGGNC CAAGGGCNCA AA 172

SEQ ID NO:6884

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08115

SEQUENCE DESCRIPTION:

GATCAGCAAT NAGGGTGAGG ACAAATCTT CTTAATCAAC AAGCTTCACT CCATCTACGA 60
 GAGGAAGGAG AGGGAGGAGA GGAGCAGGGT TGGGACAACC GAGGAGGCTG CGGCACCCCC 120
 TGCCCTGCTC ACAGATGAAC AGGATGCCTA GGGGGACGGC GATGGGCCTC ACGGGCCCCG 180
 CCAGCACCTT GAGACCACAC TGTTGCCTCC CAGTGACCCT GCTGGGACAC CAGGACAAGG 240
 AAGACAGTTT CGCCTCTNGA AAGCCGCAGC TCGCCTAGG CTGGAGCTGG N 291

SEQ ID NO:6885

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08116

SEQUENCE DESCRIPTION:

GATCTGTAAA TAAACTTAC ATTTTCAAA 30

SEQ ID NO:6886

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08117

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGNCTC CCAAGTGCTG GGATTACAGG CGNGAGCAGC TGCACCCAGC 60
 CTAGAATCTT GTATAATATG TAATTGTAGG GAAACTGCTC TCATAGGAAA GTTTTCTGCT 120
 TTTTAAATAC AAAAATACAN AAAAATACAT AAANTCTGAT GATGAATATA AAAAAGTANC 180
 CAACCTCATT GGNACAAGTA TTAACATTTT GGAATATGTT TTATTAGTTT TGTGATGTAC 240
 TGTTTTACAA TTTTNACCAT TTTTTCAGT AATTACTGTA AANNGNNNNN N 291

SEQ ID NO:6887

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08118

SEQUENCE DESCRIPTION:

GATCCCAAGC TCAGTCCCA CAAAGTTCAG GGCCGGTCGG AGGCAGGGGC AGGTCCGGGT 60

CCAAAGCAAG GACACCACAG CTCTCCGAC TCCAGCAGCA GCTCCAGCGA TTCGGACACG 120
 GATGTGAAGT CCCACGCTGC TGGCTCCAAG CAGCAGGAGA GCATCCCGGG CAAGGCCAAG 180
 AAGCCCAAAG TGAAGAAGGA GAAGGGCAAG ANGGNGAAGG GCAAGANGAN GGAGGCTCCC 240
 CACTGANGGG CCCTGGACAG GGCTCATTAA ACCTTCCTCT CTGCCAAA 288

SEQ ID NO:6888

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08119

SEQUENCE DESCRIPTION:

GATCCGCATT GAAGACCCAC CCCGCAGAAA GCACATGGAA TTCCTGGGTG GTGCAGTTCT 60
 AGCGNTTATC ATGAAAGNCA AAGACAACCT TTGGATGACC CGACAAGAGT ACCAAGAAAA 120
 GGGTGTCCGT GTGCTAGAGA AACTTGGTGT GACTGTTTCA TAAACTCCAA AGCTTGTTC 180
 CATCATACCC GTAATGCTTT CTTTTTCCT TTATTGCCAA TCTTTGAACT CATTCAACTC 240
 CAGGACATGG AAGAGGCCTC TNTCTGCCCT TTGACTGGAA NGGTCAANGT TTTATTCTGG 300
 TTGTCTGN 308

SEQ ID NO:6889

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08120

SEQUENCE DESCRIPTION:

GATCATGTCT TTTGCAGGAA CATGAATGGA GCTGGAGGCT ATTATCCTTA GCAAACCTAAT 60
 GCAGGAACAG AAAACCAAAT ACTGCACGTN CTCACCTATA AGAGGGAGCT AAATNATGAG 120
 AACTGATGAA CACAAAGAAG GAAACAACAC ACAATGGGGT CTACTTGACA GTGGAAGGTG 180
 GGAGGAGGGN GAGGAGCAGA AAACATAACT ATTGGATACT GGGCTTAGTA TCTGGGTGAT 240
 GAAATAATCT GTACAACAAA CCCCCATGNC ACAAGTTCAC CAATGTAACA NACCTTCACA 300
 TGTACCCN 308

SEQ ID NO:6890

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08121

SEQUENCE DESCRIPTION:

GATCAATTCC CTGGAATAGG GAAGTAACAT TTGCCTTAAA TTTTTCGAC CTCGTCTTTC 60
 TCCATATTGT CCTGCTCCCC TGTTTGACGA CAGTGCATTT GCCTTGTNAC CTGTGAGCTG 120
 GAGAGAACCC AGATGTTGTT TATTGAATCT ACAACTCTGA AAGAGAAATC AATGAAGCAA 180
 GTACAATGTT AACCTAAAT TAATAAAGA GTTAACATCC CAAA 224

SEQ ID NO:6891

LENGTH:28

TYPE:nucleic acid

TOPOLOGY:linear
CLONE:HUMGS08122
SEQUENCE DESCRIPTION:
GATCAAATAA AGTTATAAAA TTGCCAAA

28

SEQ ID NO:6892
LENGTH:140
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08123
SEQUENCE DESCRIPTION:
GATCAGGCCT GGCCACTCCT CTTTGGAGGG CGGTTGAGGC CCACCTGCCT TGGGCTTCCC 60
AATNCTGATT CCNNTACTAC ACCCTTCCCA GTTCTATTCC CCTCACCACA CTTGCTCCAA 120
TAAAACTATT TATATACAAA 140

SEQ ID NO:6893
LENGTH:163
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08124
SEQUENCE DESCRIPTION:
GATCGTCATC CCTTCCTGGA GTTCCTATCT TCCAAGATGT GACTGTCTGG AGTTCCTTGA 60
CTAGGAAGAT GGATGAAAAC AGCAAGCCTG TGGATNGAGA CTACAGGGGA TATGGGAGGC 120
AGGGAAGAGG GGTGTTTCT TTTAATAAAT CATCATTGTT AAA 163

SEQ ID NO:6894
LENGTH:253
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08125
SEQUENCE DESCRIPTION:
GATCACCTGA GGTCAAGAGT TTGAGACCAG CCTGGCCAAC ATGGTGAAAC GCCATCTCTA 60
CTAAAATTGA AAAATTAGCT GGGCATGGTG GCAGGTGCCT GTAATCCCAG CTATTGGGGA 120
GGCTGAAGCA GGAGAATCGC TTGAAACAGG AGGCAGAGAT TGCAGTGAGC CGAGNGGGGN 180
GCCACTGCAC TCCAGCCTGG GCAACAGGAA CAAAACCTCTA TCTCAAAAAA TAAACAAGA 240
TTTTTCTGCG AAA 253

SEQ ID NO:6895
LENGTH:99
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08126
SEQUENCE DESCRIPTION:
GATCACTTGC AGCCCAGNAA GTTTGAGACC ACCCTGACCA ACACAGTGAA ACCCNCTCTC 60
TAAAAAAGTT TGTTTTTAAA GTCTCCTTGA AACATCAAA 99

SEQ ID NO:6896

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08127

SEQUENCE DESCRIPTION:

GATCAAGCTA TGCCTGATNC TGCCTTAAGC CTTATNAGGT CGCCACGGAA CCGCAGAAAC 60
TCCTGGTGGG CAGAGCTGTG TGTGCCATCT TCATCATTGC ATTACCACCA CCAAGCACAG 120
TGCCTGGCAC AAAAGAGTTG CTCAATAAAT AAATCAGGAT GANTGGNTAA ATACATGGNT 180
AGGCACTTTG AGCTACAGAT GCGTTTAAAT ACTTTGTGTT TTTCTTAGTC AAACATGTGC 240
ANTTANGCAT GTGATAAATG CTATGATGAC CACAANANTG CACAAA 286

SEQ ID NO:6897

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08128

SEQUENCE DESCRIPTION:

GATCATGGTG AAATATTTTN GATATATAAA TTCCTTAAGC TATTGTAACC ATGTTTTATT 60
GCAAAGATGT AAAATATGCC AGATGTGTGT NAGTTGGAAA TCAAAAAAAG NAAAATAAAN 120
TATGCAAAGA NTTCAAA 137

SEQ ID NO:6898

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08129

SEQUENCE DESCRIPTION:

GATCCGCAAC AACTCAGCCA TCCACATCCG AGTCTTCAGG GTCACACCCA AGTAATTGAA 60
AAGACACTCC TCCACTTATC CGNTCCGTGA TATGGCTCTT CGCATGCTGA GTACTGGACC 120
TCGGACCAGA GCCATGTAAG AAAAGGCCTG TTCCCTGGAA GCCCAAAGNA CTCTGAATTG 180
AGGGTGGGGG TAATTGTNTG TTGGTNGGCC CAGTTAGTGG GCTTTNNTAA GTGTGTGTAT 240
GCGGTCTGTA NCTATTGCCA TATAAATAAA NAATCCTGTT GNACTNGTAN 290

SEQ ID NO:6899

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08130

SEQUENCE DESCRIPTION:

GATCATAAAA CGTTGTAAGT TTTCTAAAAC ACATAAGCTC TCAATAAACG TTAGCTTATC 60
ATTGTCACAA A 71

SEQ ID NO:6900

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08131

SEQUENCE DESCRIPTION:

GATCAAACAC TGTCAGAATT GCTGAAATCA ATACACAAAG AGATAAAGTT TAGCTTCTTT 60
 TTACTATTCA ATATTGAACA TAATATTGTT AAATATNGNG ATGAAATGCT GTTGGATNTG 120
 CTNCATTAAA TCTTAATGTA ATATTGTAAG NCTTTTGAGA ATATACTTGA TTAATAATGTG 180
 AAAGNNGGGN TTGTTANCTT ATTGCTATNC N 211

SEQ ID NO:6901

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08132

SEQUENCE DESCRIPTION:

GATCATCATC TNCTTGC GGA CTTCTCTGCC TGGTCTTGTG TGTCTGTGA TTCAAACAAT 60
 AAAANGCTGG TNGAACTTAA A 81

SEQ ID NO:6902

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08133

SEQUENCE DESCRIPTION:

GATCAGACAC TGCCTTTTGT GTGTTTGCTG CCTNTGGATN CTTTTTTAAA AAGACTGTGA 60
 CATATTAAAA NAGTGTACAT ATATAATAT NACCTCTTTT GCTGTACAGT TGTGATAGAG 120
 ACTGAAGNTT TTATTTTNG TGTGCTTTT ATAAGNAAA ANTTAATACA CTAAN 175

SEQ ID NO:6903

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08134

SEQUENCE DESCRIPTION:

GATCATCTAA TTCTCTGTGG AATAAATACA CACATATATA TTACAAGGGA TAATTTAGAC 60
 CCCATACAAG TTTATAAAGA GTCATTGTGA AA 92

SEQ ID NO:6904

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08135

SEQUENCE DESCRIPTION:

GATCTGGAAG AACTGGGAAG ATGTGATACT TAGAATACTT TGGCTGCTAA GGAAACTTCC 60

TCTCCATTGC AGAATAGCTG AGCCAAGTNA GTGAGTTTNC AGAAAGCAGG TGGTGAGCTC 120
 NTGCCTGCTG GAGGTTGCCA TGGAGGGCCA TTCCTGCCCC GCAACAGCAC CGTCCTGCAG 180
 GGAGCCACTT GGCAGAAGGG TGCAGGGCTG CTGGTGTGAG AGCAAGAGGG CTACAGGGAA 240
 AGGGCCCTTT CTCAGGGGAT GTNGNTTTT TAAAAGGTTT GGGNACACTT GGCGGGTTTG 300
 CTAAAATTGA GN 312

SEQ ID NO:6905

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08136

SEQUENCE DESCRIPTION:

GATCTCTCTT GCAGTTGAG AATGTCCCAG TTAAGCCACT TAAAAANTCC TCTNTCCTGC 60
 AGCCCAACAC TTTNCTAAGA GGTACAGAAA NGANAGGAAA TAAACACAC ATCATTATGG 120
 AAA 123

SEQ ID NO:6906

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08137

SEQUENCE DESCRIPTION:

GATCTCAACA CAGACCCTNA CCAGCTGATN AATNCAGTNA ACACACTGGA CAGGGATGTC 60
 CTCAACCAGC TACACGTACA GCTCATGGAG CTGAGGAGCT GCAAGGNTTA CAAGCAGTGT 120
 AACCCCCGGA CTCGAAACAT GGACCTGGGG ACTTAAAGAT GGAGGAAGCT ATGAGCAATA 180
 CAGGCAGTTT CAGCGTCGAA AGTGGCCAGA AN 212

SEQ ID NO:6907

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08138

SEQUENCE DESCRIPTION:

GATCAAGCCA AAAGAAATAT TTTNAAATA AGCCCTTTTC AAAAGTTTTT GAATTTATAG 60
 AAAGCACCAA TGAATAACAT ATTTCTGTTT CGTTAATGTC AGCTGCCTGA ACATTCAGCA 120
 GTTTATAAAT TGCTTAATTT GTGTNATCTA TTATCCAGTA AACCCATAGT TCCATGATAT 180
 GTCACAGGNA TTGTNAGGTC CTATTTTAAA GGTACAGTCT TGTGGNATGT CATCN 235

SEQ ID NO:6908

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08139

SEQUENCE DESCRIPTION:

GATCCTTTGA GCCCAGAAGT TGGAGACCAG CCTGGACAAC ATGACAAAAC CCCATCTCTA 60

CAGAAAATTT AAAAATTGGC CAGGCGTGGT CGCGCACGCT GTAGTCCCAG CTATTCAAAA 120
 GGCTGAGGTG GGAGGATTAT GTCCCTGGAG CCCAGGAAGT GGNGGTTGCA GNGATTGCAT 180
 CACTGCATTT NAGCCTGGGT GACAGNGTAC GCCNCTGTAT CAAA 224

SEQ ID NO:6909

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08140

SEQUENCE DESCRIPTION:

GATCCTGCTG GCCAGAAGCA AGCGGGNCG GCAATAAATC CAAGAAATTG TCCCAACAAC 60
 CACCAATTCT TACGGAGGAN TATTATTTAG CCAGCAGGAG TCGNGTTTGG TTTACTGCTT 120
 TTACTGTTTT GNGTTCATGN CTNTTTTATT TAATGGCGTT AAAAGCACAG GCAAATGTCT 180
 TTGGTAATGC AGCTTAGTAT GANTTCTNTT ANAGN 215

SEQ ID NO:6910

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08141

SEQUENCE DESCRIPTION:

GATCACAGAC TCTGAAGNCA GACTGGCAAG ATTCAAATCC CGACTGCCAT TTTAACTGA 60
 AAGACCTTAG GTAAGTTACC TAACCTCTCT GTACCTGTGT AAAATGGNGA TAACAGTAGT 120
 ATCCACTTCA CAGAGTTATG AGGNTGAAAT ACATTATAT TTATAAAACG TTTGGACCCA 180
 GTACTTGGCA CATAGTAAGG CCATGTAAGT GTTTGTAAAA TAAAACTGNA AATAAAGCCA 240
 TNTCCNAATN AAA 253

SEQ ID NO:6911

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08142

SEQUENCE DESCRIPTION:

GATCACACTG CTGCAAGACC TGACCAAGTG AGCTTCCGGC GTGGGGAAGT GCTGCGTGTC 60
 ATNACCACAN TGGATGAGGA CTGGCTCCGC TGTGGGCGGG ATGGCATGGA GGGTCTNGTG 120
 CCTGTGGGGT ATACCNACCT TGTCTGTAG CCCTGGNGNC CTTTCTGCG TATGTGTCTC 180
 CTTCTGTCA CCTGGGCATG GAATGGCCAG TGAACACCAT CCCAGAAGCA TTTTCCCTCT 240
 GCAAAATGAC GTTCTTCCC ACGTCTGTTT CTGCTAATAT TAAAAATAAA CTTTCTTCT 300
 TCCCTCTAT ACCANCTGTA AGGGAAAATN TGCTCTTNTT CCAAATATAT AAAAAGGTN 359

SEQ ID NO:6912

LENGTH:49

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08143

SEQUENCE DESCRIPTION:

GATCTTTTAC ATTGCAAACA AAATGCTGTA TTGCTTAAAA GGGTTGAAA

49

SEQ ID NO:6913

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08144

SEQUENCE DESCRIPTION:

GATCAGTTAA TAAACATGAG TAGCTTGAAA

30

SEQ ID NO:6914

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08145

SEQUENCE DESCRIPTION:

GATCTGAACT GTACAAAGTT CTCATAGCAC CNCTGGGAAG AGAAGGACGT AAACAGAACC 60
 TGACACCAGC TCCTTTTCCT TNTATACATT ATTTAATACC TATTAAATAC AATTATTTT 120
 GGAATAAA 128

SEQ ID NO:6915

LENGTH:425

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08146

SEQUENCE DESCRIPTION:

GATCTACTTG TAAC TTGTTG GCCTTCTTCC CACATCTGCC TCANACTGGG GGGGGCTCAG 60
 CTCCTCGGGT GATATCTAGC CTGCTTGTTA GCTCTAGCAG GGATAAGGAG AGCTGAGATT 120
 GGAGGGAATT GTGTTGCTCC TGGAGGGAGC CCAGGCATCA TTAAACAAGC CAGTAGGTCA 180
 CCTGGCTTCC GNGGGCCAAT TCATCTTTCA GACAATCTTT AGCAGAAATG GACTCAGGGA 240
 AGAGACTCAC ATGCTTTGGT TAGTATCTGT GTTCCGGTG GGTGTAATAG GGGNTTAGCC 300
 CCNGAAGGGN CTGAGCTAAA CAGTGTTATT ATGGGAAAGG AATGGCATTN CTNGTTTCAA 360
 CNAGCGCTAN ATGCAACCAT TNCNCTNTTG TTATAGTATC TAAGGGTNNG NNAGTTAAAC 420
 GGTTN 425

SEQ ID NO:6916

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08147

SEQUENCE DESCRIPTION:

GATCCACCAC CCAGCTTCAC CCCTACCCC CAGCGGCTCA CCATGGGGAT GGCAGCAATA 60
 AAATACTTCT AATGGAACAA A 81

SEQ ID NO:6917

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08148

SEQUENCE DESCRIPTION:

GATCAACAAG CTTNCCACG AATTAAAGAG TTTTATCAAG ATATATCGAA TACTTCTACC 60
 CATCTGTTCA TAGTTTATGG ACTGATGTTT CAAGNTTGTA TCATTCCTTT GCATATAATT 120
 AAACCTGGAA CAACATGCAC TAGNTTATG TCAGNAATAT CTGTTGGNTT TCCAAAGGNT 180
 GTTAACAGAT GANGTTTATG TGCAAAAAG GGTAAGATAT AAATNCAAGG AAGNAAAANN 240
 GTTGNTAGCT AAAN 254

SEQ ID NO:6918

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08149

SEQUENCE DESCRIPTION:

GATCAGAGGA ACCTTAGAGG CCTGAAATTG TTGCTTCCAG TTTAGCTGCC CCTCAAATTC 60
 AAGTGAATAT TTTCCCTTCT CCCTTTACCC TTCTCCAGAA ATAAAGCAGG TGACAGGGTT 120
 TTNAGAATCT TAAA 134

SEQ ID NO:6919

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08150

SEQUENCE DESCRIPTION:

GATCAAGAGT AATTACCAAC TTAATGTTTT TGCATTGGAC TTTGAGTTAA GNTTATTTTT 60
 NAAATCCTGA GGACTAGCAT TAATTGACAG CTGACCCAGG TGCTACACAG AAGTGGCTTC 120
 AGTGAATCTA GGAAGACAGC AGCAGACAGG ATTCCAGGAA CCAGTGTTTG NTGNGGCTAG 180
 GNCTGAGGAG CAAGCGAGCA AGCAGAGNAA GAAAAGTTAA ATACCAGNTA AGCTTTTGAT 240
 TTTTGTATTG TTTGCATCCC CTTGCCCTCA ATAAACN 277

SEQ ID NO:6920

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08151

SEQUENCE DESCRIPTION:

GATCTACCAC CAGAGAGTTC AACTGGNGA AAGNCCTCAT GAGTGCAATN AATGTGGAAA 60
 ATCCTTTAGC CGAAGCTCCA GCCTCATTCA CCACCGGAGA CTTCACTG GAGAAAGACC 120
 CTATGCGTGC AGTAAATGTG GGCAGTCATT TAAGCAAAGC TCCAGCTTCA GTTCACATCG 180
 GAAAGTCCAC ACNGGGGANN GGCCTTATGT GTGTGGGGNC TNTGGGNANT CCTTTAGCCA 240
 TAGCTCCANC CTTAN 255

SEQ ID NO:6921

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08153

SEQUENCE DESCRIPTION:

GATCTGGCTT NTCCNGGAGG CTNCCATGGT TGGAAGATGG TATCAGAGGG CCTGCCTGGG 60
 CAGTCTGTCT CCGGGCCAGG GTCAGGGACC CTCTGCCTCT GGCAGCCTTA ACCTGTCCTC 120
 TGCTAGGACC AGGGTGATTT CAAGCCAGGG AAGCAACTGG GACCCTGAAA ACTGTCCCTC 180
 CCCAGCCCGG TCCNCGTGTA TGTGCCNTGG TCCCCTTGCT GCCATGTGGA TGCTGTTGTN 240
 ATTGCTGTTT GTATATTATC AAAATGTTTT TAN 273

SEQ ID NO:6922

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08154

SEQUENCE DESCRIPTION:

GATCTTCTTT ATAACATTTT ATTGTTGAA TCACTTTTAG GATGTAAC TTATAAATAAA 60
 CATGAGCGCT GATGATTGCA AAA 83

SEQ ID NO:6923

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08155

SEQUENCE DESCRIPTION:

GATCCTCATC TCCATCCTCA TCCTCTTCCT TCACAGCATT TACTTGGAGC TCTTTGTGAC 60
 ACACCATGTC AGTCATGATG AATCGGCCAA CAGCCAGCCC TTGCCAGCTG ACGTCACAGT 120
 CTAAGATGGG AACTGTGGT ACAGATAGAC ATGAAGAGAG CTTAGCAGTG ATTGAGGTGG 180
 TGAATAAATA TACAGTCATT GAATAAA 207

SEQ ID NO:6924

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08156

SEQUENCE DESCRIPTION:

GATCACTGTG GGCTGGAGAG GAGAAGGAAA GGGTCTGCGC CANNCTGTCC GTCTTCACCC 60
 ATANCAAAGC ATACTAGAGC AAAAAACCAG TTGTAATATA AAATGCACTG CCCTACTGTT 120
 GGTATGACTA CCGTTACCTA CTNTTGTGAT TGTTATTACA GCTATGGCCA CTATTATTAA 180
 AGAGCTGTGT AACATCAAA 199

SEQ ID NO:6925

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08157

SEQUENCE DESCRIPTION:

GATCATGCAG CAGAAGCAGA AAAAGGCAAA CNAGAAGAAG GAGGAACCCA AGTAGCTTTG 60
 TGGCTTCGTG TCCAACCTC TTNCCCTTCG CCTGTNTGCC TGGAGCCAGT CCCACCACGC 120
 TCGCNTTTCC TCCTGTAGTG CTCACAGGTC CCAGCACC GA TGGCATTCCC TTNCCCTGA 180
 GTCTGCAGCG GGTCCCTTTT GTNCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC 240
 ACTCCCGGGG GTGAGGGGGT TACCCNTTCC CAGTGTTTTT AATTCCTGTG GGGCTCACCC 300
 CAAAGTATTA AAAGTAGCTT TGTAAATCCA AAAAAAANGG NNNNNAGG N GGGGGGGN 358

SEQ ID NO:6926

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08158

SEQUENCE DESCRIPTION:

GATCTGTACA TTTTACTATC TGTAATATAT TCTTCAAAGA ATAAATATAA AAAAAAGCA 60
 AA 62

SEQ ID NO:6927

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08159

SEQUENCE DESCRIPTION:

GATCAGATAC AGCATTAAAC GTTCTCAGT CTCCTNTCC TCATCTGTAA A 51

SEQ ID NO:6928

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08160

SEQUENCE DESCRIPTION:

GATCTTGCTA AAGTTAAAT AAGGAACATT TCACCTTTTA AATATTTAAT TCTNATGTGG 60
 ACTTATTTCC AGAAACTTT GGTGATAATT CTTGAGACAA AAGGTGGTTA AGTAGCATT 120
 TTATGTAATG CTTATATACC ATAGAGTTTT TAATAGANGA GAAATCCATT TCCTCCGAGG 180
 GTCATATTA ACAATGTACT TCCTTAAATT TNGTTTAATG ATTGTGATGG GTGCTGCATT 240
 TGCACATTGC ATTANGGAN 259

SEQ ID NO:6929

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08161

SEQUENCE DESCRIPTION:

GATCGGATGC TGAATAAAAC TCACCGTGAA GCAAGTCCCA CTGAACGAAA AGTTGGTCGT 60
 AGCATTNTNC AGCAGCTGCT TCCGGCTCCC TGAGACCCAG CCATGGAAGG CATAGAAAGG 120
 CATGTGACAA GAAACTCATG GCTTTTAATC CTGGCAGGNC AAGGAAAACC CCGTCAAAGN 180
 TTTGCATAAN TTTTGTGCT CTCCTGCTGG GGGGGGNNNG NNNNNN 226

SEQ ID NO:6930

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08162

SEQUENCE DESCRIPTION:

GATCGTTCCTT GATTTTGTTC TCATTAGTGT CATTTCCTTG TCATTGAGGA CTTTCCCCT 60
 TACAACAGTA ACACCATTTT TTGAAGAGCA AAACCTATAA TACCTCCTGG GATTGTNAGC 120
 TAGTCATTCA GCCTGTGTAA CCATGTGGAA ATAAAAATTG ACGACCAATG TATTATATGG 180
 ACAACTTTTG CTTTGAGTAA TAACTTGAT TGTAGGAAA 219

SEQ ID NO:6931

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08163

SEQUENCE DESCRIPTION:

GATCCCACCC ATTCTTTCAC TTTAAGAAAA AACAAATAAT TGTTGCAGAG GTGTCTGTAT 60
 TTTGCAGCTG CCCTTTTGTA AGANGCACTT TTCCCAAATA AAACAATTAA A 111

SEQ ID NO:6932

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08164

SEQUENCE DESCRIPTION:

GATCATTGA AATNTCTGGG AGTCTGAGGN GTACTGACAT AATNACCTGC TGGAGTCTGT 60
 AAATACACAT TTAAGACAGT GAGGATGTGA ATAAATATAT TAATGCAAA 109

SEQ ID NO:6933

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08165

SEQUENCE DESCRIPTION:

GATCAATAG AGCCCTGTCC AGGTAGAAAA GAAATGGTAT GTAGAGCTTA GATGTCCCTA 60
 TTGTGACAGA GCCATGGTGT GTTTGTNNTA ATAAANCCAA AGAACATAA A 111

SEQ ID NO:6934

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08166

SEQUENCE DESCRIPTION:

GATCCCAGCT GTTCTAGGCA GGGCCAGGCA GAGTGGGGCG CAGGCCCTNG AAGGGCGAGA 60
 CCCAGTGGCT GGGCTGCCCA GGGCTGAGGG GCCGCCTCTT GAGGGTACAC GCCTCTGGTC 120
 ACATGGCCAT GGAGCCTTGG GTACCCCTGA GTTAAGGGAG GACATTGGC CAGCTGGTGG 180
 CTGGGAGGGG AGCCTGGCTG CCCTGCTGCT TCTCCTGCCT AATAAACAGG CTTCTCCTGC 240
 AAA 243

SEQ ID NO:6935

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08167

SEQUENCE DESCRIPTION:

GATCTATTTT NATAGTTTCT TTTTCAGAAG TAAAATTTTG TACATATATA CATGTACATA 60
 TCTNTTTAGT TTGGGTTTCAT TTCTATAACA TTTTGAAGA AAATAAAAAGT TTGAGCACCT 120
 GAAA 124

SEQ ID NO:6936

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08168

SEQUENCE DESCRIPTION:

GATCAGTTGT ATGTAAATGT ACATTTTTGT NACTTTGGCT GTGCCCGTTA GAATTTATCT 60
 TCCATAAAGT ATTTCTCCCA TTGAGTCTAA TGATGTATAC TTTGCCTAGG TCTTTCCAAA 120
 ATTAATTTA TGTAATGTC TATTTTATAT AAAATATGNT TAAATAAA 169

SEQ ID NO:6937

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08169

SEQUENCE DESCRIPTION:

GATCACATTT AGGAGCAAGC AGGTGAGGGC AGAGGTGCTG GAGTGAACGT CGGCTCTTTG 60
 GCTGGTAGCC TTACCCACTG AGGGAGAGGA GCTGAAACAT GAAATGGGGA TGCGTGANCA 120
 ATGTCTCCCT TTTCAGAGC TGTATTGACT TGTTCAGAA TAACTGATAT GCCTTCACTC 180
 AGAAGAAAAG AAATGAATGT GAAAGAAAGC CAAGCATCNN TTTGCACTTA AATCANTTAC 240
 CACGGAAGNT ATATTTAGCT TCAACTTTAG TTAAAAATTA TGTGAATTAA ATATTTTGAT 300
 TTCCCTGGGN NAAA 314

SEQ ID NO:6938

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08170

SEQUENCE DESCRIPTION:

GATCAAGTGA CTGTTTAATA AATNAGTTGC TTGGGTAGAA TGGAAA

46

SEQ ID NO:6939

LENGTH:21

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08172

SEQUENCE DESCRIPTION:

GATCTTGCTG AAAACCAGAA A

21

SEQ ID NO:6940

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08173

SEQUENCE DESCRIPTION:

GATCAACAAT CATCACCTGC CTTTGTAGA AAAGAAAAAC AAAAAAGTA AATAAAATT 60
TTAAACAGTA AAATAAAAGT TTAAA 85

SEQ ID NO:6941

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08174

SEQUENCE DESCRIPTION:

GATCACTACT GCAGCAGAAT GGTCTATGTN ATTTTCCTTC TTGGTTTTT NCCTGACTTA 60
CATTCGTAAT TTTAAGAAAA TTTCTTTACG GGTGGAAGCC AATTACATG GATTAACCCT 120
CTATGACACT GCACCTTGCC CTATTAACAA TGAACGAACA CGGCTACTTT CCAGAGATAT 180
TTNATGAAAG GATAAAATAT TTCTGTAATG ATTATGATTC TCAGGGATTG GGGNAAGGTT 240
CACAGNAGTT GCTTATTCTN CTCTGTAATT TTAN 274

SEQ ID NO:6942

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08175

SEQUENCE DESCRIPTION:

GATCTAAGTT GGGCAAAAGA GAGTCATCCT GTTACCTTAA AAAGGAGTCT AGGGTGAGCC 60
CCAGTCTGCT GGTGGCCATC TTCACCACCT TTGGGGAGAG ATGGCCTCNG CAGACACACA 120

2153480

AAGCAAAGAG GTGGAGAGAA ACTGTGTCTT TGTGTCATTG TTTGAGTCCC TGGACCCAGC 180
CCAGTCCCCC CGACTACGCT GANCTTTTCA ATTGTGGGGG GCAATAAATT CCATTTAGTT 240
ANGAAA 246

SEQ ID NO:6943

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08176

SEQUENCE DESCRIPTION:

GATCCACATN ATACCGGTGC TGAAGACCTG CAAGTNATTT TGGAAAAGGG CTGGTGCGGA 60
TGAAGGGGCC CAGATTTTGG GAACAAGGAT GCATACTATA ACTTATGTCT TCCTCAGCGA 120
CCAAATATGA TTAAATAT CTTGGAGTCA AAGACTGCAG TAGAGTGGTA TTATAAATTT 180
NTGAATAAAG AATCAGTTTA NTTTTTCA TAAA 215

SEQ ID NO:6944

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08177

SEQUENCE DESCRIPTION:

GATCTGGACA CGAGCAGTCC CTGAGGGGCG GGGTCCCTGG CGTGAGGCCC CCGTNACAGC 60
CCACCCTGGG GTGGGTATTG TGGGCACTGC TGCTCTGCTA GGGAGAAGCC TGTGTGGGGC 120
ACACCTCTTC AAGGGAGCGT GAACTTTATA AATAAATCAG TTCTGTTAA A 171

SEQ ID NO:6945

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08178

SEQUENCE DESCRIPTION:

GATCGGCCCC GGAAAAAGTC TGCCCCAGAA ACTCTCACAC TTCCAGACCC TGAGAAAAAA 60
GCCACCCTGA ATTTACCCGG CATGCACTCT TCAGATAAGC CATGTGCGCC CAAATCTGAG 120
TAACTTTATA TAANTATCTC ATGGGGTTTT ATATTTTCAA A 161

SEQ ID NO:6946

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08179

SEQUENCE DESCRIPTION:

GATCCTTGGG GAAGGTTTCA GTTGCACTGT ATGCTGTTGG ATTTGCCAAG TCTTTGTATA 60
ACATAATCAT GTTCCAAAG CACTTCTGGT GACACTTGTC ATCCAGTGTT AGTTGCAGG 120
TAATTTGCTT TCTGAGATAG AATATCTGGC AGAAGTGTA AACTGTATTG CATGCTGCGG 180
CCTGTGCAAG GAACACTTCC ACATGTGAGT TTTACACAAC AACAAATGAA AATAAATTTT 240

01985

2153480

AATTTTATAA A

251

SEQ ID NO:6947

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08180

SEQUENCE DESCRIPTION:

GATCCCTCTT GGTGTGAGTT TTCTGACCCA ACCAGCCTCT GGTTAGCATC ATTTGTACAT 60
TTAAACCTGT AAATAGTTGT TACAAAGCAA AGAGATTATT TATTTCATC CAAAGCTCTT 120
TTGAACACCC CCCNCACTTT ANTCCNTNGT TCAGGCCGAT GNGCTTGCTT TCCTTCANCC 180
TGTTTGT TTTT CTTATTAGG NCTATTTATT ANTGGTTGGN CCAATGTACT CACAGCTGTT 240
GCGTCGAGCA GTCCTTNGTG AAANTNCTGT ATAANTN 277

SEQ ID NO:6948

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08181

SEQUENCE DESCRIPTION:

GATCCAGCTT CAGCTGCACA CCTNTGTCCC CTTGGATGGG GNACTAAGGG NAAACGTCTG 60
TTGTATCACT GAAGTTTTTT GTTTTGTTC NATACGTGTC TGCATAAAAA TGCCAAAGTT 120
TTTTTTCAAA 130

SEQ ID NO:6949

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08182

SEQUENCE DESCRIPTION:

GATCACCAAT NNTNNCTTTG AGCCAGCCAA CCAGATGGNG AAATATGACC CTCGCCATGG 60
TAAATACATG GCTTGCTGCC TGTAAATACG TGGTGACGTG N 101

SEQ ID NO:6950

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08184

SEQUENCE DESCRIPTION:

GATCATGAAG ACCTGCTTTA GCCCAACAG AGTGATTGGA CTCTCAAGTG ACTTGACGCA 60
AGTAGGAGGG GCATCAGCTC GCATCCAGGA TGCCCTGAGT ACAGTGTTC AATATGCAGA 120
GGATGTACTG TCTGGAAAGG TGTCAGCTGA CAATACTGTG GGCCGCTTCC TGATGAGCCT 180
GGTTAACCAA GTACCGAAAA TAGTTCCCGA TGA CTTT NAG ACCATGCTCA ACAGCAACAT 240
CAATGACCTT TTGATGGTGA CCTACCTGGC CAACCTCACA CAGTCACAGA TTGCACTCAA 300
TGAN 304

01986

SEQ ID NO:6951

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08185

SEQUENCE DESCRIPTION:

GATCCTATCT GTNCTGGCAG GACTGGCAGN CATGGTGGGC TACGCCTTGC TCAGNGGCAT 60
TGTCTCCATN CAGNGGGCAA CGCTGCTCGG GCCCCAGGCA CCCGGACCCT GGGCATGGCT 120
GAGGAGGATG AAGAGGAATN ATTTGTCCTC ACGCTCCCAA GACTGGTTTT TNTACTCTNA 180
TGCATTCCAG NGGCCCCCGT GCCTCCTCGT TGTGGTACA GCCGGACACG GGGTGCTGCC 240
ACCCAGAATA AAGCCACTCA CACTGAAA 268

SEQ ID NO:6952

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08186

SEQUENCE DESCRIPTION:

GATCCACCG AAGCAGCGTG TCCTCCGTGG GAGCCCGAGG TGGGTCCAC CCGCATCTCC 60
TCTTCCACAC CCTCCTGGGA CCCAGCCCT GGAGAAGTAG CTCTGGCTTG TTTCTTTT 120
NATTAAAGAT AATTATGTA TCGACTAAGA AA 152

SEQ ID NO:6953

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08188

SEQUENCE DESCRIPTION:

GATCAGTGGG TCTAAGTNTC CGAGACTTAA CGAAAATAGT ATTCAGCTG CAATAAAGAT 60
TGAGTTTGCA AA 72

SEQ ID NO:6954

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08189

SEQUENCE DESCRIPTION:

GATCAGCATC CTNCGNTGCC CCTTAGCAAC TNAGGTGGTT GATTTGAAAC TGTGAAGGTG 60
TGATTTTTTC AGGAGCTGGA AGTCTTAGAA AAGCCTNGTA AATGCCTATA TTGTGGGCTT 120
TTAACGTATT TAAGGGACCA CTTAAGACGA GATTAGATGG GCTCTTCTGG ATTTGTNCCT 180
CATTTGTCAC AGGTGTCTTG TGATTGANAA TCATGAGCGA AGTGAAATTG CNTTGANTTT 240
CAAGGGAATT TAGTATGTNA ATCGTGCCTT NGAAACANGG GGNAAAAAN ATN 293

SEQ ID NO:6955

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08190

SEQUENCE DESCRIPTION:

GATCCTTCAA TAAAAAATCA ATGTGTGAAG GTTCCTAGGC ATAAAAGGAA GTTCAGAAGG 60
 NTATGTAGGA AATACTGTTG TCTCTCTGGG GATTGGGATT ACAGGGATTT TTTCTCTTT 120
 NCTTTTGTGTT AAGTTTGTGT TTCCTAAAGT TTCTGCAATA AACGTACGAT GCTTGTATAA 180
 TAAA 184

SEQ ID NO:6956

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08191

SEQUENCE DESCRIPTION:

GATCTTGAAT TTCTACATAA CTTTCTCAGT TTATATGCCC TGTGGCAAGT GCAGCAAGCA 60
 CTGTTTCCTG TTTCTAAACT TGTAGAAAAT CATCCATACA TCTTACAGTT GTCAGTTTTA 120
 ACCAGATAAC AGTGGCACTT TGTTGCTGCT TTTTATCTT TAGCTTAGGT TAACAGGACC 180
 CTGGAAGTAA AGTTGTTGAT TTATTCAATA GAGTATTCTC AATTAATTG GCTAGATTTC 240
 TACATGATTC AAANTCTAAA AANGTAGACA TGCATGCTTA CATGTCTAAG GCCTGAAAAA 300
 TTGGNGGGGN CATCCCAAAA TAAATGN 327

SEQ ID NO:6957

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08192

SEQUENCE DESCRIPTION:

GATCTAAGTG GTGGTATGGA AA

22

SEQ ID NO:6958

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08193

SEQUENCE DESCRIPTION:

GATCTGTTGA CAATGGAGCA AGTGAAAGAC TTGCTGCTA ATGTGTATGA AGCTTTTAGT 60
 ACCCCTCAGC AACTGGAGAA ATGATTTTCC CTTCAAGAAA AACTACAGTG GGATTCATTT 120
 ACTTTTAAAA ATACACTGGG TAAATCACCT ATACTTAGAG TAACAGTTTG TTATCAAAAT 180
 GCCTGNTAAA ATATATNCTT AATAAANGTC TTCATTTTCAT AAA 223

SEQ ID NO:6959

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08194

SEQUENCE DESCRIPTION:

GATCTTACTT GCGAAATGCG ATGGTTGCTG GGAATACCTG AAAGTGTGGA TTATATTGCT 60
 TGAATTCTAC CTCAGAATCT NCTTTGTTTC ATGACTTAAT AGTGCTTTAA GTNNGGTATA 120
 TNATTTNACC NCTAGGAATT CTNTGTTTTA CACAGAAATA AAAATTTTAA AATAGAAAAT 180
 GCTTTTACTT TGTAAGGTAA GNGAGTATCC ATATGCTTAG ATGTGCTCGT TTCTAAAATN 240
 CTAGNGGTTG CTATANTCAG CTCATGGAAT GCACAGCTAT TGCTTTTGT GNTAGATTGT 300
 ACATAACAT CAGCAGNTGN AAGGGNAAAT N 331

SEQ ID NO:6960

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08195

SEQUENCE DESCRIPTION:

GATCACCCAG ATGCAGTGAA GCTTTTNACC CGCCAGCTTT TGGAAGTCCA TCAGGGACAA 60
 GGCCTAGATA TTTACTGGAG GGCTAATTAC ACTTGTCCTA CTGAAGAAGA ATATAAGCT 120
 ATGGTGCTGC AGAAAACAGG TGGACTGTTT GGATTAGCAG TAGGTCTCAT GCAGTTGTTT 180
 TCTGATTACA AAGAAGNTTT AAAACCGCAA A 211

SEQ ID NO:6961

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08196

SEQUENCE DESCRIPTION:

GATCATTGTA GATGAACTGA AGCAAGAAGT TATCAGTACC AGCAGCAAGG CAGANCCNCC 60
 CCAGTGCACC TCCCTGGCCT GGTCTGNTGA TGGCCAGACT CTGTTTGCTG GCTACACGGA 120
 CAACCTGGTG CGAGTGTGGC AGGTGACCAT TGGCACACGC TCGAAGTTN TGGCAGAGCT 180
 TTNCAACTAA ANAANAANCT GGCATAAA 208

SEQ ID NO:6962

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08197

SEQUENCE DESCRIPTION:

GATCCCAGCC CTTAGGTGGG CAGAGGCAGA CCCTCCCCAG AGCTCCTTAG GAAGAAGACA 60
 GACTGGTTCA TTGAATGCCG CCTTATTTAT TTCTGGTGAG GATGCATGCG TGGGGCTGCT 120
 GGTGTTTAGA GTGGGGGCTA CCCTTNTAAA TCACTGCTAC TCAAA 165

SEQ ID NO:6963

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08198

SEQUENCE DESCRIPTION:

GATCACTCTN GGTGAGCTNC TCTTCTTTA TCTNTCTTTC TCCTTTTTTA AGAAAACGAG 60
 TTAAGTTTAA CAGTTTGTCA TTACAGGCTT GTGATTCATG CTTACTGTAA AGTGGAAGTT 120
 GANCTTATTT TAAAACTTCA AGCTCAGTAA TTTTGAACAC TGNAACATTC ATCTAGGNCA 180
 TAATAACAAA GTTCAGTATT GACCATAACT GTTAAAACAA TTTTAAGCTT TCCTCAAGTT 240
 AGTTNTGTTG TAGGNGTGTA CCTAAGCAGG TAAGCGTANA 280

SEQ ID NO:6964

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08199

SEQUENCE DESCRIPTION:

GATCCATATA TGTGTGCATG TCATGAAATA AAAGNATCAC ACANCACAAA A 51

SEQ ID NO:6965

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08200

SEQUENCE DESCRIPTION:

GATCTTGGAG CTTCCCTGTA GCCCACCCTC CCCGTGCTTC ATGTTTGTAG AGGAACCTTG 60
 TGCCGGCCAG GCCCAGTTTC CTTGTGTGAT AACTAATGT ATTTGCTTTT TTGGAAATA 120
 GAGAAAATCA ATAAATTGCT AGTGTTTCTT TGAAA 155

SEQ ID NO:6966

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08201

SEQUENCE DESCRIPTION:

GATCCAGCAT TGGGGCCACT AACTCCAGC CTGGACCAGG GAGCGAGACT GTCTCAA 58

SEQ ID NO:6967

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08202

SEQUENCE DESCRIPTION:

GATCAGGCTT CAGGATAGCC CAGCACTGAG GACATCTAAA ACAGTCTTCA TTTATTTATT 60
 TATTGTTTAT AGTGTCAAA AGTTGGAATT AAAGTGAATG GCTGAATCAA A 111

SEQ ID NO:6968

LENGTH:39

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08203

SEQUENCE DESCRIPTION:

GATCATGACA AAGAAGATTA AAATTCATT AGCATGAAA

39

SEQ ID NO:6969

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08204

SEQUENCE DESCRIPTION:

GATCAATTGT ACCCCATACC TCAGCATCAT GCAATATAAC CATTAAAGAGA CCTGCACATG 60

TATTCCTGA ATTAAAATA AAAGTTGAAA

90

SEQ ID NO:6970

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08205

SEQUENCE DESCRIPTION:

GATCATTGCA GTCTCTGGCT TTTTNACTCC AGGCGGGCTC CGTGCCCTCC GGGGCCTCTT 60

CTTCCTTGTN AGGCCAGTGG GAGCCACAGA GGCCTCATTG GCTTCCTATG AATATNAAAT 120

GGGATTCTCT GTGGGGGAAG CTTCCATAAG GCAGGAAGGG GTCCCCGGTT GTTGGCTATN 180

AGTGTATTT NCTTTTAAAT CATCTGTGCT CTTCAAAGA CGACGTAAGA AGCTTGTGCC 240

CTGGCGTTGC AGAAATCTCT GGCTGTAGGG ATTAAACCTA CATGTCTTCC TGATGGGGTG 300

GTGAGGACGT AAACN

315

SEQ ID NO:6971

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08206

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAAGAGT TCACGACCAG CCTGGCCAAC ATGGTGAAAC CCTTCTCTAC 60

TGAAAATACA AAAATTAGCC AGGTGTGGTG GCGCATACCT GTAGTCCCAG CTAATTGGGA 120

GGCTGNGGCA GGNGAATCAC TTGAACTCGG GAGGCGAAGG TTGCAGTGAG CCGAGATTTC 180

ACCACTGCAC TCCAGCCTGG GTGACAGAGC AAGACTCCAT CTCAAAAAAA ANNTAATTAN 240

AAAAAATTGC AGCTGCNGGA AA

262

SEQ ID NO:6972

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08207

SEQUENCE DESCRIPTION:

GATCTTGAGG GTCTAGTATT TNAATAATGC ACTATTACCC AGGGCAGNTA TTATGAGAAA 60
CTGTTTCTNC TCTAAGGGTT TATGGCAGAC TTTGCTTTT NAACATGTGA GANATGAN 118

SEQ ID NO:6973

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08208

SEQUENCE DESCRIPTION:

GATCTGAGTA TTCCCCAAGG GCACTCAGCC ACAGGGNTGA ACTAGTGTTT GTTTGTATCC 60
TTGCAGTTAT GTGACTTAAA GTGACTCAGA GATATCTATG TATGCNNGTG TACTCCGCTG 120
GCAATGAAGT AAATATATCA ATTTGTGGNA AA 152

SEQ ID NO:6974

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08209

SEQUENCE DESCRIPTION:

GATCCTCCTG CTTTGGCCTC CCAAAATGCT GGGNTTATAG GCATGAGCCG CTGCACTTGG 60
CCTGNTACTG ATTTAATNN CTTGCGTTAT CACATAGTGT TGTATTTGAA ACATAGTTCA 120
TGGTTTTATC AAAGAACTGA AGNTGAGAAT ACTGGTCATC TAACTTTGTA ATTTGATTG 180
ATTATACTGT AAAGTTTGAC AGTCTCATTT TATCACTGCG TTTGTATCTA TNACTAAANT 240
GTATTTNTTG ACCTCTTACT GATTCATTGT TGGTNTGTNC AAACGTGTGA CTNGNTN 297

SEQ ID NO:6975

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08210

SEQUENCE DESCRIPTION:

GATCCTGTCA CCCAGGTAGT GAGTATAGCA CCCAGTGAAA CTGTAGTCTC ATNCCAGGCA 60
CTGTGCTAGC CCACTCTGGG TCATTTAATC CTCTCCTAAG AAGAGAGGAG ACACAGCGTC 120
CCCATTTGAC AGATGCAGAA AGAGGTTCCA CAGGTGTGCN TTGATTCTNT CCTAAAACCG 180
TTTCCCGGAA GCTTTTCCTG GTGTGGGCGC TTCTAACCTA ATCCTCAATC GNTTCCAGNA 240
CTATTACTCT GTTCCACAG TGNTACTGTG TCTAGGTTT ANGGGCGGCA AGTTCNATTT 300
N 301

SEQ ID NO:6976

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08211

SEQUENCE DESCRIPTION:

GATCCTTCCG ACTTGGCCTC CCAAAGTGTT GGGATTACAG GCATTAGCTA CCACACCTGN 60
 CCAAGGCCCA GGTTCGACA GAAAGGGAGA GAAAACCTGC CAGAGATGCC ATTCGGAGC 120
 CACTCTGCTT GGCAGGGACC TGTGTTCCCC TCATGCAGGT TCATCCTTAG AGGGCTGCGG 180
 TCTTATCTGG TTGTGCAAAA GTCCCACAAC CTTTCTGGAT TGATAGTTTG TGGTGAANNT 240
 AAACAATTTT AGTTTGTGTTG GAAA 264

SEQ ID NO:6977

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08212

SEQUENCE DESCRIPTION:

GATCAGAACT ACAATTACAA CCAGCATGCG TATCCCACTG CCTATGGTGG GAAGTACTCA 60
 GTCAAGACCC CTGCAAAGGG GGGAGTCTCA CCTTCTTCCT CGGCTTCCCG GGTGCAACCT 120
 GGCCTGATGN AGTGGGTGAA GTTTTGGTAG GCAATTCTT GCAACCACCA CCGNGGCCCC 180
 GNAAAGCACT GGTCGTNAGG GAGCTCCTNN CCTTGCCCCN CACGCCTGTG CCAGCCCTGG 240
 NCCCGNCTGC CACACCTCTG TTTCTTANGG CTGGGGACNC AGATTGTNTC TCCTTNTTTC 300
 TTNCNACTGC AATGTGCN 318

SEQ ID NO:6978

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08213

SEQUENCE DESCRIPTION:

GATCATNCTG CCCATNTCC ACGCACCCAA AACCAGCCCT CTCGCTTCTA ACACAGGGCA 60
 CCTGCTGGGG CTCAGGGATG TTAGGGACGA GTTCCAGNCC TGCCACTNCC CTNNGGCGAC 120
 CCCTCNCCTGT CCCTGCCTCC CTGCTCTGCC GCCCCTNTTN CTGGAN 166

SEQ ID NO:6979

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08214

SEQUENCE DESCRIPTION:

GATCCGATAC AGATTACATT TCTTGCCAGA GAGTGTTGCT GTTGTTCCTT TAGGTAAGTG 60
 TGTATTGGTG ATTCCATAAT AAAAGCAGTA ACAATACTA CCAAA 105

SEQ ID NO:6980

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08215

SEQUENCE DESCRIPTION:

GATCAGATAC ATGAACATGT CTTACATGGG TTGCTGTATT TAGAATTATA AACATTTTTC 60
 ATTATTGGAA AGTGTAACGN GGACCTTCTG CATACCTGTT TAGAACCAAA ACCACCATGA 120
 CACAGTTTTT ATAGTGTCTG TATATTTGTN ATGCAATGGT CTTGTAAAGG TTTTAAATGN 180
 AACTACCAT TAGCCAGTCT TTCTTACTGA CANTAAATTA TTAATAAANT AAA 233

SEQ ID NO:6981

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08216

SEQUENCE DESCRIPTION:

GATCTTTCCA GAGGTCCATG GTGGAAGACG ATAACCCTGT GAAATACTTT ATAAATNTC 60
 TTAATGTTCA AA 72

SEQ ID NO:6982

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08217

SEQUENCE DESCRIPTION:

GATCACCCAT CTGTGTGCTT CCATCCTGCA TTAATAATTCA CTCAGTGTGG CCCAGAAA 58

SEQ ID NO:6983

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08218

SEQUENCE DESCRIPTION:

GATCTCCAAC AGCCAGTGTG TGTTCCTCAT CTCTTGTAGG TTCCATCAAT GGTGAGCACC 60
 AGCCTGAATG CAGAAGCGCT CCAGTATCTC CAAGGGTACC TTCAGGCAGC CAGTGTGACA 120
 CTGCTTTAAA CTGCATTTTT CTAATGGGCT AAACCCAGAT GGTTCCTAG GAAATCACAG 180
 GCTTCTGAGC ACAGCTGCAT TAAANCAAG GAAGTTCTCC TTTTGAACCT GTCACGGATT 240
 CCATCTTGTA AAGGATATTA AATGTTGCTT TAACCTGAAA 280

SEQ ID NO:6984

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08219

SEQUENCE DESCRIPTION:

GATCCAGAGA CTCGTGCTGT CTCTTTGTCC CTTTCCTGAT GGTGTTACTT CGATTAACTA 60
 CTTTCAGCTG GTGTAAAAAT TGCCAAAGCA GTTGCCCTGCC ACAACTTTGT AAAAGCCAAA 120
 AAGGAGGTTG AAAATTCACA GGCTGCCCGA AAAAAGANGA AACTTGCATG GGGGTTTGAA 180
 GCAAAGNNGN GATGGGAAAC CNAAAGCAAC ATGGGNTACA TGTAACCTGC CAGAGTGCTT 240
 CAAGACATTT GTAGCCTCAA ATGCTCAAAT TTANTGNGAA TGTTTTCTCG CCTATGTTCA 300

TATGTCAGGT N

311

SEQ ID NO:6985

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08220

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAAG GGGNGTTCTG CTGCATACAC TCTGTCTTGC CTGCTGNCAT 60
 GCAAGATGTG ACTTAGCTCC TCCTTTACCT TCCACCATGN TTGTNAGGCC TCCCAGCCA 120
 TGTGGAACGTG TGAGTTGANT AAACCTCTTT CCTTTATAAA 160

SEQ ID NO:6986

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08221

SEQUENCE DESCRIPTION:

GATCAAAAGA TAACGTCTTA TNATAGTAAG ATAACCTTGG AACAGAACTG TGATTAAAAA 60
 CCTGAATAAT AAAAACACA CAAGACCCAT TAAACCTAT TCCTCACTTT TTAAA 115

SEQ ID NO:6987

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08222

SEQUENCE DESCRIPTION:

GATCCAGTTG GATATAGTAA CCACTGCCGA CTTNCTGGAT GTGCTAACTC ACACCAAGCC 60
 CTCCGNAAAG AATCTGGCTC AGAGATACTC AGACTGGCAA AGAGAATTCG AGTCTGTCTG 120
 AAACCACATT TACCCTGACC TGGCCACAAA GGCAACCACA AAGACCTCCT AGTTTATTAN 180
 NGNNCGTGGG AGAACAAAAT GATTGGAATG GAAAAGAGAA AATTATTTT GANGACTGGA 240
 TTAACCTGAG CCACTGTATT GTTTTGGNTA GCTGAGATAT ATTNNTAAC TTTACCATTA 300
 TCGATGTCAG CAAAATATTG AGAGTTTCTT N 331

SEQ ID NO:6988

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08223

SEQUENCE DESCRIPTION:

GATCTACTCC CAGTTTTTAA CTTTNNACAG AATATTGTTG CTTTCCTACA ACAATGTACA 60
 TATATTTNCA GTTGTATATG CTTTTTTTTT TNCCAAATAA AGTTTGAGTT CTAAACTCAA 120
 A 121

SEQ ID NO:6989

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08224

SEQUENCE DESCRIPTION:

GATCCTTCCC TGGCTCTCAC CTGCTCCTTT AGGCTGTAAT TGCTTCCTAC ACACGAAGCC 60
TCTGATTGGA GCCTCTGGTN CATCTCAGAA AAACCTTCCA AGAGCGCTGG GGTTTATGCT 120
TTCTGAATAA ACACTACTGT TTACATGGA A 151

SEQ ID NO:6990

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08225

SEQUENCE DESCRIPTION:

GATCTCCATA ATTTAAGAT ACTCTATGTT AAACATTTT TNAAGTNCCT TTTTACATC 60
ACGCTCTGAAA TGCACGAGNG TGGCGGTTTC TGTTTCACTG GTTNNTTGT TCATTTTN 119

SEQ ID NO:6991

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08226

SEQUENCE DESCRIPTION:

GATCCCGGGC CGTTATCCAT CTGGAGGCTG CAGGGTCCTT GGGGTAACAG GGACCACAGA 60
CCCCTCACCA CTCACAGATT CCTCACACTG GGGAAATAAA GCCATTTTCAG AGGAAA 116

SEQ ID NO:6992

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08227

SEQUENCE DESCRIPTION:

GATCCGCTGG GACAGAGTGC CCACCGTCGT GTCTTTNATA TCTCTGTAAT AACCCACAGT 60
TAAAAAGGGC AGGAAAAGGC ATCAGGTAC CATGTTATCA GGCAAGTTCT TACATTCTAA 120
GAAAATTCCT AGCTTTGTTG GGTGAGGCAA GTTTTTAAAN GAANAATGTC ACTTCCCAT 180
TTGATAANGA TTTCGTTATC ANTAAA 207

SEQ ID NO:6993

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08228

SEQUENCE DESCRIPTION:

GATCCTGATT GTAAGGTTTT CCACCTATTT CCCTGGATAT TTNNTGGTC AGTACTGGCT 60

CTGGTGGGTG TTCCTTGTTT TAGGCTTTCT CCTGTTTCTN AGAGGATTTA TCAATTATGC 120
 AAAAGTTCGG AAGATGCCAG AAACTTTCTC AAATCTCCCC AGGACCAGAG TTCTCTTTAT 180
 TTATTAAAGA TGTTTTCTGG CAAAGGCCTT CCTGCATTTA TGAATTNTGG TCTCAAGCAG 240
 CAAGNGAACA CCTGCAGGAN GTGAATCAAG CTGCAGAACA CAGAGGNNTA CTCACCTGCT 300
 TTAATAAAAT ANAGTACTGT TGATN 325

SEQ ID NO:6994

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08229

SEQUENCE DESCRIPTION:

GATCCCTCGG GNNTTAANTA CANGAAACCT AGAACTGACC AAAAGGCATT ATAACTCTGA 60
 CTCAAATACA AGGTACAGAA GATAAGCATC TTTGAGGAAA CTCCTACTTC AGTTCTTTTG 120
 TTATNATGNN 130

SEQ ID NO:6995

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08230

SEQUENCE DESCRIPTION:

GATCATATAA CATTCCAGGT ACTCAGGATG AATGGTTTGA GGACTGGTCT GAATTCTTCA 60
 AAGGTTTCAG CTGTATTAAC ATTCTCCATC TAATAAACTT TATCTTGTC TTGAAA 116

SEQ ID NO:6996

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08232

SEQUENCE DESCRIPTION:

GATCAGCAAA TAAATGAAAT TTATTAAG AAA 33

SEQ ID NO:6997

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08233

SEQUENCE DESCRIPTION:

GATCTTTAGG CAGTTTTTAC TTGGCCAGAA AGCAGTGCTG AATACTTGNA ACTGTGTGCT 60
 CTGTTCTACT TAATGTTCTG TCAGAATGTT CTTTGTAGG CAGTATGTCA TGNTGTAATC 120
 ATCTATCTCC TNGTCTGTTT CCAAGTTNNN CTGTGAAGTC TCGACCCCTT TTGNGGTGGT 180
 CATCANAGTC ACAGATTCTT TGTTTAACCA NGTGTCCNA AGCATGTACC TGNAGTTATA 240
 TCATNN 246

SEQ ID NO:6998

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08234

SEQUENCE DESCRIPTION:

GATCATTATG CAATAAAGCT GCTAAAGTCA CATTGTGGT TGATACTCAA GCCTTGTACA 60
AGCACATATC ATGTAGACAT TTTTAAATGT GAAGCTTTAA CAGGNATAGG ATAGCTGTTT 120
CAAACCTTGT GCAATTGTAA ATAANTTGT TAGCTGTGT TCTTTCATT TTAATANAAA 180
NTTAAA 186

SEQ ID NO:6999

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08235

SEQUENCE DESCRIPTION:

GATCTTCATA TTAATCTTAA AATTTGTGA CGTGTCTTT TCCTTTTTT CCACAGTTT 60
AATATATNAT TCTTCAACGA CATTTTTGT AACTTTACAC TTTTGGTT ATNTTATTT 120
AAAAAATGA AAAATTAATT TAAAAAATG CAAA 154

SEQ ID NO:7000

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08236

SEQUENCE DESCRIPTION:

GATCTGGTAC GNGGNGGACG NCATGGCCCG AGATGCCAC GGAACACAG CGCTGACCTA 60
CGCCCGNCAG GCCTCCAGCC AGGAGTGCAT CAACGTGCTT CTGCAGTACG GCTGCCCCGA 120
CGAGTGCGTG TAGTATCTGT TTTATTTNNC TGNAGTCTCC TTGGTGTAAG AACAAATNG 180
GNAAAATAAG GATAN 195

SEQ ID NO:7001

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08237

SEQUENCE DESCRIPTION:

GATCAGGCCC TAAACGTTG TTGTGATGAG GTTCTTTAG CAAGTCTTG TTAAATTAT 60
CATTTATTTG ATGAGTGAAG TTTTAAACAT GCTTTGCTGT GTGAAATTA AAAAAGGGAT 120
GTTTTCCAG GCTGGAACAA TAAATGTGGC TGTGCAGTTT AAA 163

SEQ ID NO:7002

LENGTH:127

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08238

SEQUENCE DESCRIPTION:

GATCTTTGTG AAAGTAGTAC AGTATATNAC CTTTAATTNC TTTTATTTT TAAATATACT 60
GTNACCNTGA AGCACTGGTT GGGCATTTTA ATTCATGTTA ATAAATCACA ATTATGTCAG 120
TTTAA 127

SEQ ID NO:7003

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08239

SEQUENCE DESCRIPTION:

GATCAGCCTC CTGTCTTATG TGGGCACGTT CCAAAGTTTA AATGCATTTT TTTGACTCTT 60
GGCCAAAATT TAGAAGATGC TGTGAATATC ATTTTGAAC TGTGTAAATA CATGAAAGAG 120
AAA 123

SEQ ID NO:7004

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08240

SEQUENCE DESCRIPTION:

GATCTCAGCA TTACCTCTTT GGNAAGGAA GGTAGTTCAA GAAATGAAGA GCTGTTGATG 60
GGATGATTGA AGAAACAGCT ATGAGAGGAT TGGCTCCCAT CTTTGTNAC TCTTGGGNCA 120
TCCTGTCATC TGAGAATGAA CAAAGACCAA TTTTGTGT GTGAAGCTTA AGGGTCATAT 180
GTTTGCTTGT NTTTNTNAAT GCTAATCCTT GTGAAANTAA ATGNCCAGG CGGAAGGAAA 240
NCTCTATTT AGGATNCAAA 260

SEQ ID NO:7005

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08241

SEQUENCE DESCRIPTION:

GATCTGTATT TNTATATACA CGTGTCCGNA CAAGTATAAC TAAATAAAAA TTAAAGNTTT 60
TAATCATTTT AATTGGAAA 79

SEQ ID NO:7006

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08242

SEQUENCE DESCRIPTION:

GATCATATTT CTGCCAAGNA TGTGCCTTCA ACTTTATAAT TATAGTGTG TAAAATAAA 59

01999

SEQ ID NO:7007

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08243

SEQUENCE DESCRIPTION:

GATCTCACTT TTNCTTATTA GAATTGTAC CTTTGTGTTGA TTAAGGAAAT AAAAGATGAA 60
TGACAAA 67

SEQ ID NO:7008

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08244

SEQUENCE DESCRIPTION:

GATCAGTCTC TCAGTGCCTN CCTACTGGGC AGCTCATCTG TCCACTTATT CGTATTAAAT 60
TTNCTTTTAA TTTAAA 76

SEQ ID NO:7009

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08245

SEQUENCE DESCRIPTION:

GATCCACATC CCANATGCTG AACCAGAGAG CCCCTCATCC CTCCTCCCAG TACTTAGGCA 60
GCGCCTTCTG TGTGCACTGC CTCTTGCCGG GCACTGGGTA GGTGCACACG NGGACCGGGA 120
CAGGGCCAGA NACTTTGGTN CCCGNGGTTT GTNTGNGGGG NN 162

SEQ ID NO:7010

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08246

SEQUENCE DESCRIPTION:

GATCGATTAA GTCTAGGAGT TTNAGACTTG CCTGGGCTTA GCAAGACCCT GTGGCAAA 58

SEQ ID NO:7011

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08247

SEQUENCE DESCRIPTION:

GATCCTTGAG TCTCCNCTCT GGATGGAATC CGCGAGCTGG CCACCTGGCC ACCCTCTACA 60
CGACTCCACC CNCCATGGC CGTGGGGCCC TTACTCTCTG ACTTCTCAGG ACACAGGTCA 120

2153480

TGGAGGTTCT TCCCAAGCTG GCAGAGGCCA TTTGTGGAAA GTGGAGAGCT ACGTGGTGGN 180
CATCTGCCAA CTCAGCATC TCTGGNGGG NTCCACGNTG AATGTNATTT TTGAAAACAG 240
CTTATGTANT TAAAGGTTGA ATGGCACATC ATAAA 275

SEQ ID NO:7012

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08248

SEQUENCE DESCRIPTION:

GATCAAGACC ACCCTGGCTA ACACGGTGAA ACCCTGTCTC TACTAAAAAT AAAAAAANTT 60
AGCCGGGCAT GGTGGCACAC GCCTGTACAT CCCAGCTACT CANGGNGGCT NGTGGCATGG 120
NGNN 124

SEQ ID NO:7013

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08249

SEQUENCE DESCRIPTION:

GATCANGAGC CCTTTNCTC CAGTAGTACA GGCTTTGAAA ACTACTTCTA TTAAGTTATT 60
GATGCAATTT GATATTTTT CATAATCTAT ATTTAAACAA AATTACATCA TTGCATCATC 120
TTTTCTAAAT TCATCTCCAT TAAAAGCTGC CTAAAGCTAC CAGNTTGCTT TTGCCANNNGN 180
NGGCCATACT GTGTGTTTGT TTGTTTAATN NNCTN 215

SEQ ID NO:7014

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08250

SEQUENCE DESCRIPTION:

GATCTCTCAG GGATAGAAGA TATTCTCAT GAAGGCAGCC TAACTCTGAG GAAAACAATG 60
CCAATTCAAG TACAGATTTC AACACATCTT CAACACTATG TGAAGGGTTC ACATCTTAAC 120
CTGTGCAATT CAGATTGATA CTCAGAATAT GGGTTGATT GAATATCTGA AATATCAATG 180
GAAAATCCCA CTNNGTTTT GATGAACAGT TTGAACAGTT TTCTGTAATC AAGCAGCTTG 240
CATAGAAATT GTATGATGAA ATTTNCGNN GGTCTTGGT GCTGTTTTGT TCTTTTTTTG 300
TTTTTTGTTG TTTTGTTATT TACTTATATA CATATAANCT TTTNTGAAA ATATGTTTTG 360
GTTACTAANA GTN 373

SEQ ID NO:7015

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08251

SEQUENCE DESCRIPTION:

02001

2153480

GATCCCAACC TGGACCCACT CATGAACCCCT CACATCCGCG TGGGCCCCCTC CTNAGCCCCN 60
TTGCTTGTGG CTAGGCCAGC CTAGGATGTG GNTTCTGTGG AGGAGAGGCG GGGTAATGGG 120
GAGGCTGAGG GCACCTNTNC ACTGCCCCCTC TNCNTCAAGC CTAAGNCACT AAGACCCAG 180
ACCNAAAGCC AAGTCCACCA GAGTGGCTGC AGGNCAGGN 219

SEQ ID NO:7016

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08252

SEQUENCE DESCRIPTION:

GATCGCTTGA ACCCATAAGC TGGAGACCAG CCTGTGCACA TGGTGAGACC CTGTCCCTAC 60
CAAAAAAAT AAAGTCATTA GAGTTTTTAA A 91

SEQ ID NO:7017

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08253

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAGG GGCTTCCCC TTCACTCAGC TCTCATTNTT CTCTCTCCTG 60
CCACCATGTA AAGAAGGATG TGTTTGGTTT CCCTTCCATC ACGATTGTAA GTTCCTGAG 120
GCCTCCTAAG CCATGTGGAA CTGTGAGTCA NTTAAATCTC TTTACTNTAT NNNNGN 176

SEQ ID NO:7018

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08254

SEQUENCE DESCRIPTION:

GATCATCACT TACCCACCCC CCAAGTTCAA GACCAAATCT TCCAGCTGCC CNNTTCGTGT 60
TTCCCTGTGT TTGCTGTAGC TGGGCATGTC TCCAGGAACC AAGAAGCCCT CAGCCTGGTG 120
TAGTCTCCCT GACCCTTNTN AATTCCTTAA GTCTAAAGAT GATGAACCTC TAAA 174

SEQ ID NO:7019

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08255

SEQUENCE DESCRIPTION:

GATCCTCCCT TTCCTATAGN GNTAAAAGTG ATTTATCTTG GCAAA 45

SEQ ID NO:7020

LENGTH:109

TYPE:nucleic acid

02002

2153480

TOPOLOGY:linear

CLONE:HUMGS08256

SEQUENCE DESCRIPTION:

GATCATGTGA TGTTGGAGTA GGAGGGTTTA TTTGGTGAC TTTGGGATGC TGGTTTCATT 60
GTAGGTATAA TNATGNGGNG CAAAGAATCC AGGNAAGAAT TGCCAGAGN 109

SEQ ID NO:7021

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08257

SEQUENCE DESCRIPTION:

GATCCCACTG AGGCCAGAGA ATAGGGTCTG GAGACAAAGG AGCATTCACT TCAGCCTCTG 60
ACTGGTGGCA GGCCAAGTNT TTATTACAT AGGGTGTAAAC CAAATAGGAA ACCTCTAAAG 120
GGTACTTAAA CCCAGATTT TNTACACAGG GCACTTGCTT GAGCCTCATC CCGCTTTCTG 180
GAATGTACTT TTGCTTCAAT AAATCTGTGC TTTTGTTCCT TCAAA 225

SEQ ID NO:7022

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08258

SEQUENCE DESCRIPTION:

GATCTGGAGG GCGTGGCTAC AGGACCCGGG ATGCCATTCA GTTACTCATC TTTNATGCTT 60
TCGTCTGAC CTGTCTCAAC TAGACTTGCT CCTGCAACCA CCATGGGGGT TTTGCATTTA 120
CATTTGTGGA CCATGTTACA GTTAAGAAAA ATCCTGTTTC AGTCCTTATA TGTAAATAAAA 180
TGTTTTATGA TGTAAA 196

SEQ ID NO:7023

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08259

SEQUENCE DESCRIPTION:

GATCTNTCCT CCGCTTGAGA AGACCATGGA ACTGGATAGC TCACTTCCGG AATACAACAT 60
GTTTCCCCGC AAAGGCCGGG GNCTCCCTAG NTCAAATTTT CAATCTCATN AGCAGGTGNT 120
AGAAAGGTNT TGTGGTAGCA ACTNCATGAT TTCTCTGTGA CCAAAATNAN 170

SEQ ID NO:7024

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08260

SEQUENCE DESCRIPTION:

GATCAAATGT AAATNTTTTG AGGATATTTT NCTTGTTTTT NAAAATCAAT TTTTAACCAA 60

02003

ATATTAAACC CTTTATTGTC CAAA

84

SEQ ID NO:7025

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08261

SEQUENCE DESCRIPTION:

GATCCACCAC TGGNCTCTCC CTCCCCCAGC CTGGAGCACG GGAGGGGAGG TGACGGCTGG 60
 TGACTGATGG ATGGGTAGTG GGCTGAGAAG AGGGGACTAG GAAGGGCTAT TCCAGGCTCA 120
 GCCCTGCTAC TGCAGCTTTG CCGCTGAGTG TAGGAAAAAC AGGCATGACA GACCAGGGTG 180
 AGGGTTGTGC CCAGCTGGGC CACGGCCATG CGTGGGGTGG CCCAATAAAC ACCGTGGACT 240
 CCCAAA 246

SEQ ID NO:7026

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08262

SEQUENCE DESCRIPTION:

GATCAGTCTT TATNAATAAA ACCTGTTCTC TTTAATCAGC TTAAA

45

SEQ ID NO:7027

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08263

SEQUENCE DESCRIPTION:

GATCAGACTG NTAACCTTAA CACCATAGGT GCAAAAANGAG TTGTTCTNAG GTTTTTTTGA 60
 AACATTAAAG TTCCAAAACA TGACATTTTT AAGAATAAAT TTGAAATAGN GTATGATTGA 120
 ATGCAGAGNA TTATGTACCT CTAATTGCTT AATTTTGTAG NGGTCTTNA TTGTAGAATT 180
 GGNNCN 186

SEQ ID NO:7028

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08264

SEQUENCE DESCRIPTION:

GATCTCTTGG TAACAATTGA CATTGCACTA GNATTTGAAT GNTACTGTTG TTGGCATTTT 60
 TGTANTCTT TCAAGTAGTT GTAAATAATC TCTTTTCTC ATATAACGG AATGCATAAT 120
 GTCTTACTCT TGAGTCATTT AGTAGCATTG ATATGGTACC AAGTTGTATA GCAGTGTAAC 180
 AAAATCATGC TTTGACAATG NAATTTACAT ATTGCCTCAC CTAGAGATGT TTTGTCTGTA 240
 TGACTNNTNN CNTNTAAAG TTNGNCNAAC N 271

2153480

SEQ ID NO:7029

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08265

SEQUENCE DESCRIPTION:

GATCAAATCA GGGTAATTGG GTATCCATCA CCTCAAACAT TTACCATTTC TTTGTGTTGG 60
GAACATTCCA TATCTTTTTT TCTAGCTGTT CTGAAATTG CTATACGTTT TTTAACTAA 120
AGGTCCCTTG CTGTGTTATG GAACACTGGA ATTTGTTCTT TCTGTTTAA TGTATTTTGG 180
TACCTATTAA CCAACTTCTC TTTATCCTCC CCCGTCCTCT ACCCTTCCCC AGCCTGTGGG 240
AATCACCCAT NCTACTCTCT GCCTTTATGA GATTACTTN TTTNATCTCC CNATATAANA 300
N 301

SEQ ID NO:7030

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08266

SEQUENCE DESCRIPTION:

GATCGTAGAA ACACAGAATG GGACTGGGGA AGCCCTTTGG AAATCCAGCT GCAGAAACAG 60
ACACCCCAAT GCTATTTACA TACAGCTCTA TATATATAAA AAAAGNAAAT ATGNAAA 117

SEQ ID NO:7031

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08267

SEQUENCE DESCRIPTION:

GATCTCACCA GGGCCCAGTC ATATATGCAC AGTTAGACCA CTCCGGCGGA CATCACAGTG 60
ACAAGATTAA CAAGTCAGAG TCTGTGGTGT ATGCGGATAT CCGAAAGANT TAAGNGAATA 120
CCTAGAACAT ATCCTCAGCA AGAAACAAAA CCAAAGTGA CTCTCGTGCA GAAAATGTAG 180
CCCNTTACCA CATGTAGCCT TGGNGACCCA GGCAAGGACA AGTACACGTG TACTCACAGA 240
GGGAGNGNAA GNTGTGTACA AAGGNTATGT ATAANTNTTC TTTTAGTCA TCCTATN 297

SEQ ID NO:7032

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08268

SEQUENCE DESCRIPTION:

GATCCTGGGG ACTCATATTC TTTCAGAATC ATGTAAATAA ATGGCATCAT GTTGTAAT 58

SEQ ID NO:7033

LENGTH:103

TYPE:nucleic acid

02005

2153480

TOPOLOGY:linear

CLONE:HUMGS08269

SEQUENCE DESCRIPTION:

GATCTATTG GCCTCTCAA TNAACTNAGA TTCCTGTAA AAAAGATTGA TGTATTGTC 60
TCTTGTAGAG GAAACTAATA AAGTGTGTGT ACCTNTGTGN AAA 103

SEQ ID NO:7034

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08270

SEQUENCE DESCRIPTION:

GATCAAGAGT NATGGGCCTT GGAGCCCTTG CCAGCCCAGC CCACCTGTNA GGAGGCTGCC 60
CATCCCCTCT TTNAGGCCAC CCTGTGTCCT CTCCCCTGCC TCTGCCCAGA GCTCCAGCCG 120
GAGTGTCTTG CTGCTCAGAC CCCTCCGAGG TCCAAGTCCT GTCCTGCCAC TCAGTCCCN 180
CTGCACCCCA GAAGAAACGC AGGGTGCGGT TGCATTGAT TTCAGATAAA CAACAACCTC 240
TTAGTAAAT NACCTNCCCA CTAAT 265

SEQ ID NO:7035

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08271

SEQUENCE DESCRIPTION:

GATCAATCTT GANGTGAAAT ATTTCAAAA TAAAATTCTA CAGAAA 46

SEQ ID NO:7036

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08272

SEQUENCE DESCRIPTION:

GATCTTTGCA TAGAATGTCA AGCTAACCAG GCGTCCGNTA CTTCAGAAGA GTGTACTGTC 60
GCATGGGGAG TCTGTAACCA TGCTTTTAC TTCCACTGCA TCTCTCGCTG GCTCAAAACA 120
CGACAGGTGT GTCCATTGGA CACAGAGAG TGGGAATTCC AAAAGTATGG GCACTAGGAA 180
AAGNCTTCTT CCATCAGGNG TTAATTGTTT TGTTATTCAT TTAATGGCTT TCCCTGCTGT 240
TACCTAATTA CATN 254

SEQ ID NO:7037

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08273

SEQUENCE DESCRIPTION:

GATCATTGAG AAAGTGTGTT AAACCTTCTC ATGAAGTGTA TATATAATGG CGTGAAAAAT 60

02006

2153480

TCCTTTGGAA AAATNTATGT NCCTTTCATT TTGCCCAAAT TGCAAATTTT CAGCATGGNT 120
GTGAAAAGCA TTTAAATTAT AACTTTGTGT ACANGATGAA AATAATTCAC TAAATTGCC 180
CTTTTTTACA CAAAATAAAA TGTTAANGTT ANNGCTGGNA AA 222

SEQ ID NO:7038

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08274

SEQUENCE DESCRIPTION:

GATCAAATGA CANTAAATCA TTCAAAATCA AA

32

SEQ ID NO:7039

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08275

SEQUENCE DESCRIPTION:

GATCACCCAG GTACANCATG CTCTATATCC ATGCGGCCCT AGAAACCCAA GGAACATATA 60
CAACCACTCT TGTGTCCCTC CTTATAACCN CAGNTTATN CNAGAAGTN 109

SEQ ID NO:7040

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08276

SEQUENCE DESCRIPTION:

GATCACAAAT TGGTGCAATC TTAACGTGG ATAATTATGT ATGAAGCCAA ATTGTAATAA 60
AACTGTTATT TGCCAAACAT AGAANCCTTG CTTCTGACT AGGCTGAGCC CAGAGTGTTA 120
TTCTCTTCTT CTGCCTGTNA TGTATCTGGG CAATTTGTAG GGCCTTTGCA GGTGAATCCA 180
GTAGAGAACC ATGCTAAGAN TGNCAGCAG TCATGCATGC CTGTATCATT GAAAGCCTTC 240
CTNGCCATTT TNNCAGCTTC ACCTTNCGTG GTTTTATTT TTTCCAGAGG GGGCCTGGGG 300
N 301

SEQ ID NO:7041

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08277

SEQUENCE DESCRIPTION:

GATCCTCCTC CTAAGCGCT TATCTTGGTG CTTCCAGCTC AGTCTGGCCA ATTCCACCTC 60
TATGAGATAA GGAGGGTTCA GAGAACCAG TCACTTGCT GTTTTCTGC NCACAGAGTT 120
TCTCTAATAA ATCTTATTCT ATGTCTACAA A 151

SEQ ID NO:7042

02007

2153480

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08278

SEQUENCE DESCRIPTION:

GATCACATTG TTTGACCCAG TATGTCTTGT AGACACGTTA GTTATAATCA CCTTGTATCT 60
CTAAATATGG TGTGATATGA ACCAGTCCAT TCACATTGGA AAAACTGATG GTTTTAAATA 120
ANCTAATTCA CTAATAAA 138

SEQ ID NO:7043

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08279

SEQUENCE DESCRIPTION:

GATCTGTCAA CAGGTTAAGT CAATCTGGGG CTTCCACTGC CTGCATTCCA GTCCCCAGAG 60
CTTGGTGGTC CCGAAACGGG AAGTNCATAT TGGGGCATGG TGGCCTCCGT GAGCAAATNG 120
TGTCTTGGGC AATCTNAGGC CAGGNCAGAT GTTGCCCCAC CCACTGGAGA TGGTGCTGAG 180
GGAGGTGGGT GGGGCCTTCT GGGAAAGGTGA GTGGAGAGGG GCACCTGCCC CCCGCCCTCC 240
CCATCCCCTA CTCCCCTGN TCAGCGCGGG NCATTANAAG GGTGCCANAN ATTTTTTTNN 300

SEQ ID NO:7044

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08280

SEQUENCE DESCRIPTION:

GATCTCATTC CATGGGAAAA AAAAAATCC TGTCTTGTC ATAAATTGAC AATGTCTACTA 60
AATAGAAATA AAGTGCACAN TAAATGNAAA 90

SEQ ID NO:7045

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08281

SEQUENCE DESCRIPTION:

GATCTNAGTT AGACATCACC ANTGGAAATC GATTGGAATA GAAACTTAAA GGAAATGGAA 60
CCCTGACTAT TCTCCCATCA AATCATATAT GTTGACCTGT CTGAATTATA AACCAGCCTG 120
ACCTTTCCTT TAGCATTAGA TGTAATAAAA TAACTTTGGA AATTGTGNAT TAAA 175

SEQ ID NO:7046

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08282

02008

2153480

SEQUENCE DESCRIPTION:

GATCCTCAGG ACTGACCAGT TAGCTGGCAG GTTGTNCAGC TTTAATTCC AGTCATAATA 60
GGTGACAGTG TTAACCGTGA AANTTTGNGA GGCACNTTTG NCCTCTCCC TATAAAAATC 120
ACACAAGCGT GNTTTTACAA AGGGTCCCCG TGGGAACCTT NGCTTAAGGA CCCTTTGNCC 180
CNTCAGTTAN 190

SEQ ID NO:7047

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08283

SEQUENCE DESCRIPTION:

GATCCTCAGG ACTGACCANT TAAGCTGGCA GGTGTCCCA GCTTTTAAAT CCCAGTCATA 60
ATAAGGTGAC CAGTTTAAAC CCGTGNAAC TTNGAGGGGA CTTTGCCTT TTCCCTATNA 120
AATNACACNG GGGGGTTTAA NAAGGTN 147

SEQ ID NO:7048

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08284

SEQUENCE DESCRIPTION:

GATCCATCTG CCCTCATAAA AGTGTTTCAGG TACAGCAGCT GAGGCTGCCC TGAGNAATCA 60
AGGGGCCATT ACCAAGGGGC AGGAAAAGNA TATGTAAGAG GTGGCCTTCA TGGTAGAGCT 120
TGACCCAAGA ACTACTCCAN ATTCGGATGG CCCAGACTGG GNGCATCCCC TGACTTTCCC 180
TTTGACTTCA CCCTGTTTGT AAATAAANCA AGGNAGATGC AAA 223

SEQ ID NO:7049

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08285

SEQUENCE DESCRIPTION:

GATCTCCTCC CTNGTTTAAA TGTCAATAAA TGCCCCAACT GCTTTGTAAG TGCAAA 56

SEQ ID NO:7050

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08286

SEQUENCE DESCRIPTION:

GATCACCTTA AAATTATTTN ACGNACTGNA GNCAATNAAG TCCGTTATGT TTAGAGTAGA 60
AAATGTTTAG GTTAAAGAGC ATCTGTCAAC AGAATCTACA AAAAAGN 107

SEQ ID NO:7051

02009

2153480

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08287

SEQUENCE DESCRIPTION:

GATCCAATTN CATNNGCGGC TGCATCTNCT GCTCATGCCG CCCAAACACC ACCCAGATGT 60
CACTTACGTC AAGAAGGTCC GGACCCCTCCG TATGCACCTG TTCACGGCCC TGCAGCTGCT 120
NTGNN 125

SEQ ID NO:7052

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08288

SEQUENCE DESCRIPTION:

GATCCAAGAA ACGNANGACA CAACAACAAC GATGCCGTGT GTCTGCTCTA CCTGGGCAAG 60
CTCAAGNACT CCCTGCGGCA GCTNGAGGCC ATGGTCCAGC AGGACCCCAG GCACTACCTG 120
CACGAGAGCG TGCTCTTCAA CCTGACCACC ATGTACGAGC TGGAGTCCTC ACGGNGCATG 180
CAGAAGAAAC AGGCCCTGCT GGNNGCTGTC GNCGGCAAGG NGGGGGCCAG CTTTAACACA 240
CAGTGCCTCA AGCTGGCCTA GCTGNNTNNN ACACAN 276

SEQ ID NO:7053

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08289

SEQUENCE DESCRIPTION:

GATCGAGTTT ACAGTTGTGN NNTCTTGAAG GTATTACTTA ACTTACTAC AGCTTGTCTA 60
GAAGACCTTT CTAGNGTTA TCTGGTTCTA GAAGGGTCTA TACTTGTCTT TGTCTTTAAG 120
CTATTTGACA ACTCTACGNG TTGTAGNAAA CTGCTAATAA TACAAATNCT TGTTGTCCAT 180
GGNAAGGCAA ATAAATTNC TACAGTGNN 209

SEQ ID NO:7054

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08290

SEQUENCE DESCRIPTION:

GATCTCATTT TCAGTTTAAG TAACTGCTGT TACTTAAGTG ATTACACTTT TGCTCAAATT 60
GAAGCTTAAT GGAATTATNG CCCTCAGGAT AGTATTTTGT AAATAAAGNT GATTAAATA 120
TGNAAA 126

SEQ ID NO:7055

LENGTH:276

TYPE:nucleic acid

02010

2153480

TOPOLOGY:linear

CLONE:HUMGS08291

SEQUENCE DESCRIPTION:

GATCGCACCA TTGCACTCCC ACCTGGGCAA CAAAGAGTGA AACTTGGTCT CAGAAACGAA 60
ACAAAACACA AAAACCTTTC TNAGTCCCAG CATATGTGGA GCAGCCTCAT TCTTCATAGC 120
TGTGTGTCAT TCCGTTGCGT GATGGGGTCA CAGAGCACAG ACCTGGTGCC CTTTTCCTTT 180
TTAATATGTG GAAACCCCTC CATGCTTTCC AAAGCCTACA AGTACAGCAG CCCCNAGTTT 240
AGGGTGNGCA GCAGTGGTCA GAGCTCTTNN CTANTN 276

SEQ ID NO:7056

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08292

SEQUENCE DESCRIPTION:

GATCTCCAGG AGTCCCCTGC ACATACCTTC TCCATCGTGT CAGCTGTGTT TCTCTTGATT 60
CCGTGACACC CGGTTTATTA GTTCAAAAGT GTGACACCTT TTCTGGGCAA GGAACAGCCC 120
CTTTAAGGAG CAAATCACTT CTGNNNNAGT TATTATGGTA ATATGAGGCA ATCTGATTAG 180
CTTCACAGAC TGAGTCTCCA CAACACCAAA ATATCCAGAT GTAAACCCCA AACTTGTACA 240
CAAANGNAAG CACAGATTGT TTACCTGTTG TGGAGN 276

SEQ ID NO:7057

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08293

SEQUENCE DESCRIPTION:

GATCCCTGTT ACCCAGAGAA TANNTACATT CTTTATCTTG ACATTCAAGG CATTCTATC 60
ACATATTTGA TAGTTGGTGT TCAAAAAAAC ACTAGTTTGG TGCCAGCCGT GATGCTCAGG 120
CTTGAAATGC ATTATTNNGA ATGTGAAGTA AATACTGTAC CTTTAAA 167

SEQ ID NO:7058

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08294

SEQUENCE DESCRIPTION:

GATCACATAC CCTTCTTTTA AGTGAATTTT TTTCATTGGA TTTGTCAATA AACGAATCAA 60
ACTGGNAAA 69

SEQ ID NO:7059

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08295

02011

2153480

SEQUENCE DESCRIPTION:

GATCTCCCTG CCTGGGCTGG CTGTGAGGCC ACCTTTGTCC CAGGCCCAGC CTCAAGGCAA 60
GGAGGGCGCT TCACTGAGGT GTGAATTGTA CGTACAGGCT TTTTATATAC CAAAAGTATT 120
TTTTGACTAG ACCATTCAAA GCTACCCGAA CTATGTTGGA AATTTTTTTT TTCTCATTAA 180
AATACAGGCC CTTAGGCTCT ATTTTAAATG TATNAGTCGC AN 222

SEQ ID NO:7060

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08296

SEQUENCE DESCRIPTION:

GATCAAAATA CCTGTTTATA TATCTGTTAT TTAAAGAAAA ATTTCCACA GTGTTTTGTT 60
ATTTCCAGC GTTCTTAGN ACATTGGGN ATTNCACTAA AATATAGCTG GGTGGATTGA 120
AGTAAAGGGC AANTGCGTTT GCAAA 145

SEQ ID NO:7061

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08297

SEQUENCE DESCRIPTION:

GATCTTCCAA AACACACAAA 20

SEQ ID NO:7062

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08298

SEQUENCE DESCRIPTION:

GATCAATCAA GAATAATTTT AATTTTCTTT TGTATTTGAA ATGTAAATAG TTTTCTTTTC 60
GATTAACAAA ATTTCTATA ACTGCTAAC AGTTAAANNC TTTAAAGTAG TAAATGAGTT 120
TATAGAAAGC ATGTATTCTT GATTTTNGTG CCTTGGTAAA GTTGATAACT ATTTATGAAT 180
ATTTGACCAA ATTATTCCAG CATCAGAATA ATAAGCAAAA TAACCCN 227

SEQ ID NO:7063

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08299

SEQUENCE DESCRIPTION:

GATCACACCA CTGCATGCCA GCCTGGGCGA CAGAGTGAGA CCCTGTCTCA GAAAAGAAAA 60
AAAAAGTAAA AATTGCATGT AAGTTGACCC GCACTATTCA AATTTGTGGT GTTCAAGGTT 120
CAACTGTAAT TTCTAGCAG CATTTTGTGT GTTGAGAAT CTCTTGACAC TCTTCAAGTA 180
AATCCCTAAA TTACAACCTT GACATCAAA 209

02012

2153480

SEQ ID NO:7064

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08300

SEQUENCE DESCRIPTION:

GATCGACTGA GCTCAAATTT CAGTTGGGGC CCTATTAGTC TGCCTTTCCA AAAAGGGCGT 60
TGGGACTTTA ATTTAAACT TAACCAGTTG AAAAATAAG GTGGCGTGA AATGCTTTT 120
GATTTGCAAA 130

SEQ ID NO:7065

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08301

SEQUENCE DESCRIPTION:

GATCTGGGCT TTAAAGCAGA GGCCATGTCC TTGTCTGGTC CTGCTTNTGG CTACAGCCAC 60
CCTGGAACGG AGAAGGCAGC TGACGGGGAT TGCCTTCCTC AGCCGCAGCA GCACCTGGGG 120
CTCCAGCTGC TGGAATCCTA CCATCCCAGG AGGCAGGNAC AGCCAGGNNG AGGGGAGGAG 180
TGGGCAGTGA AGATGAAGCC CCATGCTCAG TCCCCTCCNA TNN 223

SEQ ID NO:7066

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08302

SEQUENCE DESCRIPTION:

GATCGGAGAC ATCCTGCTGT TCGGNACGTT GCTGATGAAT GCCGNGGCGG TGCTGAACTT 60
TAAGCTGAAA AAGAAGGACA CGCAGGGCTT TGGGGAGGAG TCCAGGGAGC CCAGCACAGG 120
TGACAACATC CGGGAATTCT TGCTGAGCCT CAGATACTTT CGAATCTTCA TGGCCCTGTG 180
GNACATCTTC ATGATGTTCT NCATGATTGT NCTGTTCCGC TCTTGAATCC CAGCGATGAA 240
ACCAGGAACT CACTTTCCAN 260

SEQ ID NO:7067

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08303

SEQUENCE DESCRIPTION:

GATCGAAAGA AGNACATCAT GAAAAATAAA TGAACTTTGC TTAGTGGATT GACTCCTTTG 60
CTGAAGTCAG TTATTCATCA AGAATGCAAT TAGNCTAATT GTGAATAAAT GATTGNNTGA 120
AGNTATAATA AATAAACCG TAAACTCTGG CAAA 154

SEQ ID NO:7068

02013

2153480

LENGTH:29

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08304

SEQUENCE DESCRIPTION:

GATCAATAAA ATGTGATTTT NCTGATAAA

29

SEQ ID NO:7069

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08305

SEQUENCE DESCRIPTION:

GATCGTCCCA TCACAGTGTT GTTAATGTTT GCTGTATTTA TTAATTNCT TAAAGTGAAA 60
TCTGAAAAAT GAAA 74

SEQ ID NO:7070

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08306

SEQUENCE DESCRIPTION:

GATCTGGCTT CACAGACAGT TGACACATCT AAAAGAATCT TTGTTTCCAA CTGGACTGAC 60
TCATTGAGAG GAAACCTTCA CTGCACCTCA CCAGTGCAGA CAGAAGACCT GGAGGCAGGA 120
CGGGAGGCAT TTTATACTTC AGCACGATAT GGGCCCTGAC TTTTCATTTT CTACATGGAG 180
ACATATTGCT GGAGGCTCAT CATCCTGAGG GGAGAAACAT GGATTTTCATG GTTTTGCCAT 240
AAAAGTATGC AACAAAGAGT TCCN 264

SEQ ID NO:7071

LENGTH:27

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08307

SEQUENCE DESCRIPTION:

GATCANTAAA AAAAATAAAT AATTAAA

27

SEQ ID NO:7072

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08308

SEQUENCE DESCRIPTION:

GATCTNTTTT NTCTGGAGTC CTGGAGTTNC TTTCCTAAGG TTAAATATAA GCAAGCNCCA 60
GAAAGAATGC TGACAGAAAA GGGACCCTAG CTGTGGTAGG AAGTGGCCCT CAGAGTCAAG 120
GAGGCAGGAT GANTTTAAAT NCTNCATGTA GGGCATATTT TGGGGAGTNA TGGGN 175

02014

SEQ ID NO:7073

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08309

SEQUENCE DESCRIPTION:

GATCGACTTT AAGTTGCTTC GGGTCTAGTA GAAATCCGGT TATTCCAAG CCTGTNAAAT 60
 GTGAAGTTCA AGAAAATTGA ATCCGTGTAT AGCAAAACCA TTTTNTCTCA CAATTTTTTA 120
 ACCAATGAAC ATTGTGTGGG AAATTNATTC CATATGTTTT CAAGTCATTT ATGCAACTTG 180
 AATAATTAAA ATATTCATTG GTAAGAGCTG CCTGATGTCT TTAAAGTCAG GAAATTGTCT 240
 TATGCCAAAA GTAGACAANC TCAAACACCA AAAGGTCANN N 281

SEQ ID NO:7074

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08310

SEQUENCE DESCRIPTION:

GATCATTTTT CTTGGAGGNT GGAGATTGGC TAGTACCTCT GGCCTAACTG TGTAGGTCAA 60
 TACTCTTTTA CATTGCCTTC TAATAAAAGC AGNATGATNC AGCAAA 106

SEQ ID NO:7075

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08311

SEQUENCE DESCRIPTION:

GATCTTGTGT CTGTTGTGCC TGAATTTGGC GTGTCTAATA AAGGCCCATG CACACTATAG 60
 GCACTCAA 69

SEQ ID NO:7076

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08312

SEQUENCE DESCRIPTION:

GATCAGTGAA ATNTTAAACT CCCACGGTAA CATCATGCCT ATGGACATTA AAGGAATAGC 60
 AAGGACTTGC TCCCACGACT TCACATTTGC TCCCCTGGC CAGGAATGTG GGCTCTTAGT 120
 GATTCCAGAT AAGGGCAAAG CTGGGGCCCA ATGTATGTAG CCAAATTGNA GNAATCATGG 180
 NGCACAGGCA AATGGTGACA TGAATTTGTA ANCTGTGTTT ATGTGTTNTT ATATTTATAT 240
 TTCTGANCTC AGTACATGTT AATATTAAAN TAATTATGCA GTAACCTTCA AA 292

SEQ ID NO:7077

LENGTH:29

TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08313
 SEQUENCE DESCRIPTION:
 GATCCTGCAC TCTAGCACAT GACTCCAAA

29

SEQ ID NO:7078
 LENGTH:334
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08314
 SEQUENCE DESCRIPTION:
 GATCCCCTGT CCCCTGGGGC TGGTGGATAG GGCAGAATCC TGGGCCCCCA GAGACCTTTG 60
 CCCACACACA CTCCTTCCCC TTGTCCCTGG GGNACTCCCC CAGGATTGTG CAATAGTCAG 120
 AGTGTCCCTT TTTGCAGGGG ACTGGGCCAT GGGTCCTAGG CCCATCTGTC CATCCTCCTC 180
 TCCATGCAAG TGCTGTTTGG GCAGNAGTCA CCATGCAAGG GTGNCATCGN CANCCACGTA 240
 CCAAGNCACC GCAGCTGCTG CCACTCTGCT GCCTGTACAG AAGGAANCTG NATCTTTTNN 300
 ATATTCTAAT AAAATNACTG TGGGNTTTNA NAAA 334

SEQ ID NO:7079
 LENGTH:245
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08315
 SEQUENCE DESCRIPTION:
 GATCCCGTAA ATTGAAGGCA ACAAGGTCTT GGTCTNCAG TAAGGGGGGC ATGGAGCCCT 60
 GGTGGGAAGG AAAGAAGNGA AATTGTGTT CCTGATTCTT TAATCCCCAN GAAAGGTCCC 120
 TCTGTAACA TTCACATATC TTTCTAGC CAAAGTCTGT CCATTNNAAC CCTNTAGCAT 180
 CTGAGCTATC TGCATCCAGN TTTCAAANAT ATTCGNTGT TTACTAACAT GTNTGTNAGC 240
 CTNTN 245

SEQ ID NO:7080
 LENGTH:88
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08316
 SEQUENCE DESCRIPTION:
 GATCACAAAT NACTTGTGTA AATGTAAGGC AGTCCCCCTC CTCCTCTTTA TCTACATTAC 60
 TTCCCGAAAA TAAATGCANA TTAATAAA 88

SEQ ID NO:7081
 LENGTH:149
 TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS08317

2153480

SEQUENCE DESCRIPTION:

GATCAGGTCA CAGTGTGTAC GTAAGAGTCA GCTNCTTATG GNTATTGTCA TCTAGGTAAC 60
TTTGTA AAAA AACAAACAAA ACTGGCATTG TTAATTCCAA AAAGAAAAAA AAAAGCAGTA 120
AAAANAAAANG GNCATTGNA CCNCCGGCN 149

SEQ ID NO:7082

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08318

SEQUENCE DESCRIPTION:

GATCTCAGCC TCGGGTGGTC AGGGTGGGAA ATGATAGGAA GAAGCTGTCA TCTGCATCCT 60
AGTTTGCCTG AAATGAACCC AAATAATACC CATTATTATT AGTCCTGAAT TATGAGTAGT 120
GAATGATACC CATCATCTG GCATCATGAT GAGTAGTGTG CACTTCCATT CTGAAAAGTG 180
CCCTGCTGTG AAAAATAAAT TATATAGTCC TCCTAGGTAA ATGAAGGAGG AGGGAGAAGT 240
GTGAAAGAGT ATGGCTTAAA TCAGACAAGA TATACAAGAA GATACTTTAT ATAGGGCAGG 300
AGCGGTGGCT TN 312

SEQ ID NO:7083

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08319

SEQUENCE DESCRIPTION:

GATCTGGGAA ACTGATTGAA TAATACACTT TTCTTGCTTT GGTGCTCAAA GTGGTTTTTT 60
TCCCCCAATA AAATTATTTA ATTGAAA 87

SEQ ID NO:7084

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08320

SEQUENCE DESCRIPTION:

GATCAGGAAA TGCATCTNCG CAGATGGTAT TTCCTTCAGA AAAGACTTTN CTACTTTAAA 60
TATAAATNAN GCCATAACAG TTTCATGCTG TGGAAAGAGG GTGAAAAGGT TCATTTTAAG 120
AGATTATATA ATANGACCTT NCACATTTCC TGTGAAATGT CTAACTTTNC CAGTNCTTCA 180
GCAAGTTTTT TTGGGGGGTG ATGGGGAGNN GGTAGTATTG GTTTTAGAGG TTTCAAATCT 240
GTGANCTTTG GAGAGGGGAC AGTTGTTGGC TCTGGTATTT CCTAGTTTTG TAGTAACGTT 300
TTGCTAGCCN NN 312

SEQ ID NO:7085

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08321

02017

2153480

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTAAAAAG GGGTGTCTCC CTGCACAAAC TCATTCTCTG TTTGCCTACC 60
GCCATCCGCT TAAGATGTGA CCTGCTCCTC CTTGCCTTCC GCCGCGATTG TNAGGCCTCC 120
TCAGCTATGT GGAAGTGTAA ATCGAATTAA ACCTCTTTCT TTTGTAAA 168

SEQ ID NO:7086

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08322

SEQUENCE DESCRIPTION:

GATCCATGTG TTTTACTCTA AAGTGCTAAA TATGGGAGTT TCCTTTTTTT ACTCTTTGTC 60
ACTGATGACA CAACAGAAAA GAAACTGTAG ACCTTGGGAC AATCAACATT TAAATAAACT 120
TTATAATTAT TTTTCAAAC TTAAA 146

SEQ ID NO:7087

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08323

SEQUENCE DESCRIPTION:

GATCAATAAA GCTGTCTTAC ACTTGTGCTA GGNAGGCACC GCTGTGACTG GGCTCCGGGC 60
CTTTCCACTA CGTTGAAGAA GAAAACCTAT TTTTAAATGT AAATAAAATA TCTGGTAGCC 120
TGTGTGGAAA GCTGACCGTT TTAAGAAGTG GCATGTGCCT TGAAAGGGGG CAGAATGTTT 180
AGTCGGTCGT GTTTTAAACA CAGAGTCTCT AGAAGAGGTG CAGACATCCC GTCTGACTGT 240
CCCTGTGGAC TCTCTCAGTT GTATGTTGCT ATAATCCTCC AAATCAAAGC TCTTTCTGCT 300
TGTGCAAGAT TNNN 314

SEQ ID NO:7088

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08324

SEQUENCE DESCRIPTION:

GATCTTACTG AATTATTTT GTAAATGCCT AATGAGGCAG ATTTTGAAT TAAAGAAATG 60
CTACATGTAA A 71

SEQ ID NO:7089

LENGTH:412

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08325

SEQUENCE DESCRIPTION:

GATCTAACA TATCAGGACA TGGACTCAGG ACCTGCCCCG TGATGCTGTT GATTTCTCAA 60
AGGTCTTCCA AACTCAACA GAGCCAGAAG TAGCCGCCCG CTCAGCGGCT CAGGTGCCAG 120

02018

2153480

CTCTGTTCTG ATTCACCAGG GGTCCGTCAG TAGTCATTGC CACCCGCGGG GCACCTCCCT 180
GGCCACACGC CTGTTCCAG CAAGTGCTGA AACTACTAG ACCGTCTGCC TGTTTCGAAA 240
TGGGGAAAGC GTGCGTGCGC GTTATTTATT TAAGTGCGCC TGTGTGCGCG GGTGTGGGAG 300
CACACTTTGC AAAGCCACAG CGTTTCTGGT TTTGGGTGTA CAGTCTTTGT GTGCCTGGCG 360
AGAAGAATAT TTTCTATTN TTTTAAGTCA TTTCATGGT TCCTGGTCCT GN 412

SEQ ID NO:7090

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08326

SEQUENCE DESCRIPTION:

GATCTATTTT TGGCTTATGT CTTTAAATAC TACTCTCTT CTCTGAATTT TGAAATATGA 60
AGTAAATCT AGCCCATTTG TTTTATGCAA A 91

SEQ ID NO:7091

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08327

SEQUENCE DESCRIPTION:

GATCTCAAGA GTTCAAGACC AGCCTGGGCA ATATGGTGAA ACCCGTTTGT ATTAAAAATA 60
CAAAAATTAG CTGTGCATGG TGGCCACGG CTGTAATCCC AGCTACTCAG GAAGCTGAGG 120
TCCGAGAATC ACTTGAATGC TTGAACTCGG GAGGCAGAAG TTGCTGTGAG CCGAGATGGC 180
ATCACTGCGC TCCAGCCTGG GCAACAGAGA GAGACTGTCT CCACTGTCTC CAAAAAAAAA 240
NGAAAAAAAA AAGTTGTTN GATTCNTGGC CCTCAAGGAA ATTNTGAAA ANAN 294

SEQ ID NO:7092

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08328

SEQUENCE DESCRIPTION:

GATCATGTTT TGAAGCAGCA GGTCCAGGTC ACTTTGTATA TAGAATTTTG CTGTATTCAA 60
TAAATCTGTT TGGAGGAAA 79

SEQ ID NO:7093

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08329

SEQUENCE DESCRIPTION:

GATCTTTCCC TAGAGAATGT AACATACGTT TTTATTCATT TAATCACTTC ATTATGCCGG 60
GGTTAATNAT GTTTATTTTA TAATTGGTAA TAAAGGCCAC ATTTATTTTT GTAACGTGTA 120
AA 122

02019

SEQ ID NO:7094

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08330

SEQUENCE DESCRIPTION:

GATCTTAAAC TCTTTGATTA AAAATAATAA ATGGAAATGT GTTAAGCAAA

50

SEQ ID NO:7095

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08331

SEQUENCE DESCRIPTION:

GATCCAGGGA TTTGGGAAA AGGAAGGAAT TTGATGTTTT TTGGGGTGGG AGGGGAGGGT 60
GTGTTTTTTA CACCAA 77

SEQ ID NO:7096

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08332

SEQUENCE DESCRIPTION:

GATCGCTGGC CTTCTGACT TAACATTNAT GCATGCCAAG GTGTGATGT TCCCAGCCAC 60
GTAAACACCT TCCACAAGNT CTCAAGAAA AGCAGACGGA TAACTGATGT GAATTGGACA 120
GTTTCTATTG CTTTTCCTTT TTTCCATCCC TTCCCTACCA TCAAAAGCAT ACCTGCTCTA 180
ATTAAA 186

SEQ ID NO:7097

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08333

SEQUENCE DESCRIPTION:

GATCATATAC TCTGCTGTGG TCATGCCCAC TCTTTGGGAG TATATCCCT TTATATATAT 60
TGAGTATTGT ACCACTTGAG AAATTCCTTT GTTCTGTTAT ACAAAATTAA TCTTTCTGCT 120
CATAATGATT GATGATACCA CCAGTAAAA TAGGATGTTT ACCCCAAAAC AAGTGTCAAT 180
TAAGAATTG AACACAACCA CATTTTTTAA AATGAACTT CTATCGGAAG TAAATTAATT 240
TGNGGTAATA AAGTCCAGTA TTNGGNAAA TGTACAATGT TAAATCTCAA A 291

SEQ ID NO:7098

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

2153480

CLONE:HUMGS08334

SEQUENCE DESCRIPTION:

GATCAGACTT TTGNTCTTG GGTCCCAGAT GGCACAGGAG CACTGCATGC TTGTTTCTA 60
GAGCCCAGCC AGTCATGGGT GCTAGCCTAG TCTCCACACA CCAGCAAGTA GAACCCAAGT 120
GTANNNNNAT AAATATTTCC TGAGTACCAG TAAGAGAATG CATTCTTTTC TCATCTAGGC 180
CAGGAATGTT GAAAATGCTC AGCCTTACAT AGAAACTCCT AGATTTTCAC TAACGCATTT 240
CACAAAAGTA AATAAGTATT TCATATAATT CAGAGGATGT TTAAATTGTC AGCATTTTAA 300
TAAATAN 307

SEQ ID NO:7099

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08335

SEQUENCE DESCRIPTION:

GATCTGTACT TTGAACAAAG AAAGTGTGTA GAGACCCCTG GGAGTGAGGG GTAGGGGATA 60
CAATACTCTG AAGCAGAAGA GGACCCTTGC AGTGATGGTT AGGGACTCTT CTGAGTAGGA 120
GACGTAATCG GCTTTTGGTC CATGGAACCT TTACCACATG TATTCAGCAT ATATACACGA 180
TTAAAGTGCT GCAAATAAA 199

SEQ ID NO:7100

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08336

SEQUENCE DESCRIPTION:

GATCTGGGAG TGGCTTCCTA ACGGAAATGG AACAGGATTA CCAACTAGTN GACGAAAGTA 60
ATGCTTTCCA TGACAACCTT AGGTCTCTTG ACAGNAATCT GCCCTCAGAC AGCCAGGACT 120
TGGGTCAACA TGGATTAGAA GAGGATTNA TGTTATAAAA GAGGATTTTC CCACCTTGAC 180
ACCAGGCAAT GTAGTTAGCA TATTTANNGT ACCATGGTTA TATGATTAAT CTTGGGACAA 240
AGAATTTNAT AGAAATTTT AAACATCTGA AAAAGAAGCT TAAGTTTAT CATCCTN 297

SEQ ID NO:7101

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08337

SEQUENCE DESCRIPTION:

GATCTTTGTC TGTGAAGAAG AAAATTATCT CCCTAGTTCA ATCTGTAGTG AAATAAGGCT 60
ACAGAAGGCA TTGTTTTTTC CTTTTNATT TTTTGTATTA TATATTNCC TTAAATATGT 120
TTTATTGTCT TCTCTANGCA AAAAGTTCTT AATAANCATA GTATTCTCT CTGCGTCCTA 180
TTTCATTAGT GAAGACATAG TTCACCTAAA ATGGCATCCT GCTCTGAATC TAGNCTTTT 240
AGAAATGGCA TATGGTTTTG ATGATATGNC CACCATCCAA AATGTCCGAN TNAATN 296

SEQ ID NO:7102

02021

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08338

SEQUENCE DESCRIPTION:

GATCAACTTT AAGAAGATTT ACAAAACGCT CAAGAAAGAN GAGGATATCC NACTNTTCCC 60
CGTGCGAGACA AAATACATGG ATGTGGTCAA NGAGTGAATC CGTTTAGCTC GACAGATTGA 120
GAAATCTGAG TATCGGAACT TCCAGGCTTG CCTNCACAAC TCTTGGATTG AGCAGGCAGC 180
AGCTGCCCTG GAGATTGAGC TGGAAGANGA CATGTATAAG GNAGGAAAAG CTNNCCAGCA 240
AGAAGAACGT CGGNGACAAA AGCAGATGGN GGTTCTNGAA GAAGGAGCTG CGNCNCCTGC 300
TTNTN 305

SEQ ID NO:7103

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08339

SEQUENCE DESCRIPTION:

GATCCACAAG TCCTTGTTCC ACTGTGCCTT GGTTTCTCCT TTATTTCTAA GTGGAAAAAG 60
TATTAGCCAC CATCTNACCT CACAGTGATG TTGTGAGGAC ATGTGGAAGC ACTTTAAGTT 120
TTTTTCATCAT AACATAAATN ATTTTCAAGT GTAACCTATT AACCTATTTA TTATTTATGT 180
ATTTATTAA GCATCAAATA TTTGTGCAAG AATTGGAAG AATAGANGAT GAATCATTGA 240
TTGANTAGTT ATAAAGATGT TATAGTAAAT TNATTTTATT TTAGATATTA AATGATGTTT 300
TATTAGGATA AATTTCATC AGGGTTTTTN GGATTAANCA ACCANCCAAT TGGGTCCCCA 360
GTTAANTTTC CATTTCAGAT ANCCACCANN TAGTTTCNNN GTNTAGGTCC ATTN 414

SEQ ID NO:7104

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08340

SEQUENCE DESCRIPTION:

GATCCCCTGA CTGGCTGGGG GCAGCTCCCA GGATATCCTG CCTTCCAACT GTTCTGAAG 60
CGCCTCCTCC TAACATGGCG ATTCCGGAGG TCAAGNNCNT GGGCTCTCCC CAGGGTCTAA 120
CGGTAAAGGT GACCACATAC CAGTGCCAAG GGGNTTNTAA AGTGGTGATG TAGTTNTGCT 180
CCCCTCCCCA AGAGCGGGTG GNGGGGGGTT NAANATGTTT GGCCTGNNTA AGTGGGCCTT 240
CCCATTNAAG TN 252

SEQ ID NO:7105

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08341

SEQUENCE DESCRIPTION:

GATCTTATTT TTTAATTTTA AGTGCCACTA TTAATGTAAA AAGGGGGGGG CTCTACAGCA 60

GTCGTGATGA AACTTAAATA TATATCCTTT GTCCTCGAGA TTTTAGGAAG GGTGTAGGGT 120
 GAGTAGGCCA TTTTNAATTN CTGAAGTGCT AAGTGTTTTT ATACAGCAAA CAAAAAGTCA 180
 ATTTTCCTTT CCACCAGTGC GAGAGAGGAT GTATACTTN CAAGAGAGAT GATTGCCTAT 240
 TTNCCGTTTG ACAGAGTCCC GTAGATGAGC AATGGGGAAC TGGTTGCCAG GGTCTAANTT 300
 TGGATTGATT TATGCACN 318

SEQ ID NO:7106

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08342

SEQUENCE DESCRIPTION:

GATCTGTGAC CCCAGCCATG AGGACCCTCG CCATCCTTGC TGCCATTCTC CTGGTGGCCC 60
 TGCAGGCCCA GGCTGAGCCA CTCCAGGCAA GAGCTGATGA GGTGCTGCA GCCCCGGAGC 120
 AGATTGCAGC GGACATCCCA GAAGTGGTTG TTTCCCTTGC ATGGGACGAA AGCTTGGCTC 180
 CAAAGCATCC AGGCTCAAGG AAAACATGG CCTGCTATTG CAGAATACCA GCGTGCATTG 240
 CAGGAGAACG TCGCTATGGA ACCTGCATCT ACCAGGGAAG ACTCTGGGCA TTCTGCTTN 299

SEQ ID NO:7107

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08343

SEQUENCE DESCRIPTION:

GATCTTAGAG GTTGAAGCCC ACCTTCTCTT TTCACATAGG AGGGAACAGA CCATGGAAAT 60
 TTAAACGACT TCCTCACGGT CACAGAACTA GTTTTTTAAT CCTCAGGCAG TGNATCCCCC 120
 CACCCTACAA CTGTGCACAA CCTCTTTCCC CACAGTGCAA TTCAGAATAT GCTCAGGGAA 180
 TGCCAGGCAC CTGTAAAAAC TGCTGGGAGA AAAGCATGNT TCCACAAGG ACTAAGTATC 240
 AGTGATTTGT AATTTTCTG TTTTGTATTA TCTGCTTGC TGATGTAGAC AAGAGTTAAC 300
 TN 302

SEQ ID NO:7108

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08344

SEQUENCE DESCRIPTION:

GATCNAACTG TCTCACTGCT TTTCCAATA TAATCATNTC GCTCTNACTT TAACAAAAGG 60
 CGATGGCACA GTAATTTAGT AAATTTNTGT AATAACATNT AAAAAAAGN 110

SEQ ID NO:7109

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08345

2153480

SEQUENCE DESCRIPTION:

GATCCTGTCT AAAAAAGAAA AGAAAAGAAA AGAAAAGAAA AGAAAATCAG CATTGTATCC 60
CCAGAACCTG CTACAGTGTG CTGTACACTT AATAAATATT GGTGAATGA ATGAACTGAA 120
A 121

SEQ ID NO:7110

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08346

SEQUENCE DESCRIPTION:

GATCATCAGT AAATTTGTCA TGTATATAT TATTTTTTT ATAAATCAAG ACTTCTGTGT 60
GCTCTTAAAT ATATTAAGAA CAATTACAT TTCAGGAAA 99

SEQ ID NO:7111

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08347

SEQUENCE DESCRIPTION:

GATCCCAGNA GGAGGGAAGA AAATTTGCAG TGAAGTAAAA CAGTAAAAAA AAAAAAATA 60
ATGTATAAAA AAGTTGCATT ACACAGTNCA AA 92

SEQ ID NO:7112

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08348

SEQUENCE DESCRIPTION:

GATCATTCTN GTTGATACCC TTCTTTGAAT ATTCTAGTGT ATTAATATAC CATTGGTTAT 60
TNAATCATGT CTNATTAATG GACTGGCTGT TTTCACATAT TNGATATATC AAGTGTCTTC 120
ACAACTTGTG CTTGCATATT CTTCCCAAA ATATTGAAAG TCCATATATT TCCTTGATCA 180
TNTTTAAAGT TGATATCTNA ATNTNTCATT GTAGTNGCAA AGCATGTAAT TNCTTGGGGG 240
AGGGGGGCTG TAAATATTGA CATTTTAAAA TAAACTTTT AAATCAGCCT TAAATGTATC 300
AGGN 304

SEQ ID NO:7113

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08349

SEQUENCE DESCRIPTION:

GATCAAAATT CACGTCGTCT TCTGTATACT GTGGAGGTAC ACTCTTNTAG AAAGTNCAAA 60
AAGTCTACGC TCTNCTTTCT TTCTAACTCC AGTGAAGTAA TGGGGTCCTG CTCAAGTTGA 120
AAGAGTCCTA TTGCACTGT AGCCTCGCCG TCTGTGAATT GGACCATCCT ATTAACTGG 180

02024

2153480

CTTCAGCCTC CCNACCTTCT TCAGCCACCT CTCTTTTCA GTTGGCTGAC TTCCACACCT 240
AGCATCTCAT GAGTGCCAAG CAAAAGGAGA GAAGAGAGAA ATAGCCTGCG CTGTTTTTTT 300
AGTTTGNNN 309

SEQ ID NO:7114

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08350

SEQUENCE DESCRIPTION:

GATCTTCCCC AGCTATGAAG CCTATCTTGG AATGGGAAAC CATGAAATTT GTCTTTTAAA 60
AGAAAGGGAA GAAATAGCCT TACAGCCCCT GTTCCTCCAA GTGCACATTT AGCCTTAAAA 120
TCCTGGGAGT CGGGAGACAC CGTGGAGTCC TTACATCCAC AGTGTCTGCT GGTGCTGGTC 180
AGAAGGCAGT AATGCAAGAG TCCTTTTGTG AAGAGTGTTT CTATGTAGAG ATGTTTATAT 240
TTAAGTAGTT CTTTATAAAA TAAAAGCATT TCTAATGGCA AA 282

SEQ ID NO:7115

LENGTH:27

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08351

SEQUENCE DESCRIPTION:

GATCTGTTTT CTGTAACTTT TGCTAAA 27

SEQ ID NO:7116

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08352

SEQUENCE DESCRIPTION:

GATCTTAGGC TTCAGCTCTT TATCTTACAC CTTGAGACCC CAAGAGAGTC CCAAATTCCT 60
GGAAAGGCAG CATCACAGAG TGGGGAATA CAGGACTTGG CTTTAGGTTT TAGTCCTTAA 120
CACAGCTTCT TCCTTGCTGT GTGTTCTTTG GTAGGTCAC AAATCTCTCT GAGCCTCAAA 180
TTTCTTATCT CTAGGTTGAA AAATAAATA AAGTCCCAT GCCAATCAGT GCAAGGAATC 240
TGTGAGATAA A 251

SEQ ID NO:7117

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08353

SEQUENCE DESCRIPTION:

GATCACGCCA CGGCACTCCA CCCTGGGCGA CAGAGCGAGA CTTGTCTCA GAAAAATCT 60
GTGAGGTAA AAGGCTGTGT GTGTGAAAAT ATCTTGAAA TTGTAAAGAA CTACACAANT 120
AAA 123

02025

2153480

SEQ ID NO:7118

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08354

SEQUENCE DESCRIPTION:

GATCATTCAT CAACATGTGT CTCTNAATTT AATTCAGTAG TTGTAATTAT TCTTTGGTTT 60
AGACCAAGAA AAAGGAAATC CCCCCTTNA ATGTATTCCT TGGTTNAGG ACATGACTCC 120
TGTAAGGNAG AGGAAAGGA GATGCTTCCT GTTTGANCTG CAGTGAATTC ACGGTCCTG 180
TTTCACTACT CCAAACCTTA TGGCGACTCA CACACACATT CCTCTTNCT GTTACTGCCA 240
AAGGTTCCGG TTAGTACAC TTCAGTTCCA CTCAAGCATT GAAAAGGTTT TCGTN 295

SEQ ID NO:7119

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08355

SEQUENCE DESCRIPTION:

GATCCCCAGG ATGCCCACTT CCCTCCACCC CCACACCCCA GCCGTGTCCC TAACCCCTGG 60
CAACCAGGAA TCCACTCTCC ATTTCTATAA TGTTGNNATT TCAAGAATGT TATTCAATGG 120
AATCATATAG TATGTAACCT GTTTGAGCT TAAAAAAAAA GTATACATGA CTTAATGAG 180
GAAANTAAAA NTGGATATTG AAA 203

SEQ ID NO:7120

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08356

SEQUENCE DESCRIPTION:

GATCCGTTAG TGTCTGTTTA GAAAAGATGT TATAAACTTA CAGAAACAAA TATAATAAAC 60
TGAAGCAGAT TTGAAAAGCA AA 82

SEQ ID NO:7121

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08357

SEQUENCE DESCRIPTION:

GATCTTTTGC ATTGCAGAGA TTTTATATAT ATTTGTTTG TAATGAGCCA TTCTCAATAA 60
ACATTATTCT CACTGCAAA 79

SEQ ID NO:7122

LENGTH:299

TYPE:nucleic acid

02026

2153480

TOPOLOGY:linear

CLONE:HUMGS08358

SEQUENCE DESCRIPTION:

GATCCCTAGT AACTCCTTC TTCACTTTTA CTGTCAGATT TACAAAGGTC CTCCCATTGC 60
AAAGCAGTGN NNNTCCTAAT TTATATATTG TTTTNCCTAGT TCATTTTGTG TTTCCAACTT 120
TTCATGTAAA ATTTTAATTA TTTTGAATG TGTGGATGTG AGACTGAGGT GCCTTTTGGT 180
ACTGAAATNC TTTTCCATG TACCTGAAGT GTTACTTTTG TGATATAGGA AATCCTTGTA 240
TATATACTTN ATTGGTCCCT AGGCTTCCTA TTTNGTNACC TTGCTNNNN NGTGGCANN 299

SEQ ID NO:7123

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08359

SEQUENCE DESCRIPTION:

GATCATGTGC CAAGGCTGCG GTGCGTTCTG TCACGATGAC TGTATTGGAC CCTCAAAGCT 60
CTGTGTATTG TNCCTGTGG TGAGATAATA AATTATGGCC ATGGGAAA 108

SEQ ID NO:7124

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08360

SEQUENCE DESCRIPTION:

GATCAGACTG TGCTTCTAA TTCTAAAAA TTGAGCAGTG TTGGTATTCT TNCAGTATTT 60
TTNCTCTCAC CTGGAAGAACT ACCTGGAAGT TGTCAGGCAT TTNCTTACTG NNN 113

SEQ ID NO:7125

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08361

SEQUENCE DESCRIPTION:

GATCTCTAAG TAATTNTNCA AAATCCGGTA TTACTATGTC AAGTTATTGC TTTTGGTAAA 60
TTCATCTGAC CCAGTTATAA ATGAAAGANT ATGGANTTAA AAATTTTAAA NCTAAATAAT 120
TTGNN 125

SEQ ID NO:7126

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08362

SEQUENCE DESCRIPTION:

GATCATGCTC CATCCAGCCC CACCCAATGG CCTTTTGTGC TTGTTTCCTA TAACTTCAGT 60
ATTGTAAACT AGTTTTTGGT TTGCAGTTTT TGTGTTGTT TATAGACACT CTTGGGTGTA 120

02027

AA

122

SEQ ID NO:7127

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08363

SEQUENCE DESCRIPTION:

GATCGGCACT CACGATTGTN ATGTTGGCTA CATCCTTGAC AAAGCCGATG GCCTTTCCAG 60
GTTGGAACCT GCAATAACCA TCCTGTTGAG GATGCAAAGG GCATGAAATA CAGGTTATGG 120
ACCCGAAGTC TCAGCCTCCC CACGCAGTTC AATAACATT ACTAAACAAA ACAAGATGTG 180
CCAGGGCCTG GGGGATGGGA TAATTCAGA GAGAATTAA GCATCCTTGT CCTCAAGGAG 240
CTTAGGGTCT GGTAAA 256

SEQ ID NO:7128

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08364

SEQUENCE DESCRIPTION:

GATCAACAGG GGTGAAAAGA ACCACCCTGA GGTTCCTATG CCTCTCCCAN NTTAGTGGT 60
AGNATTTTGT GTCTTTACTC CACCCCTCAC CCTAGTTCCA CCAAGGTTCA CACACCAGAT 120
GTAAGTGTG TNNAGCTGAG TTGTATGGAT TAACTTCAGT CCACTGTAAA TACACCTGGG 180
ATGGGGTGGG GTTGGGGTTG TTTAGGGAGA AGCAGCCAGA CTGCTTTGT GAACTGAATG 240
TATTTTATG CAATTTTGAG TGGCCTTTCA ACCCTAAGAT GAATGGTTTT GTTTTACTGG 300
TTGTTGTTAT ATAGTTTGA GTATTCTGTG TTTGAAAGTT TGGGTN 346

SEQ ID NO:7129

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08365

SEQUENCE DESCRIPTION:

GATCGTGTCT CTGATAAAG AATAAAGCT GTTTATTGCA AA 42

SEQ ID NO:7130

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08366

SEQUENCE DESCRIPTION:

GATCTTAGGT CCCACTCANG GTCCTAACTG GCTATGGCCA CAGCTGGAAC TACCCGAGAA 60
GNCTTTTGTA CATGTTTGGT AGCCGTAGCA CAAGTGATTG GAGTAGAACA TGCACTGCT 120
GTACATTTTT AACTCCCCTA ATGGTGTGTC TATAATTNTN AAATCTAAGG GGGGGGGCTC 180
AGTAAAGCCT CCTGGCACCA GGCCTTCCTG CTCGACTGAA AAAAATTCN TCTTTGAAAA 240

2153480

TCCCCTTTTA CTCATGGCCC ACAGTAGAAT ATCCAAAACG CCTTGGCTTT CAGGCCTGGC 300
CTTTCCTACA GGGAGCTCAG TAACCTGGAC GGCTCTAN 338

SEQ ID NO:7131

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08367

SEQUENCE DESCRIPTION:

GATCTTTTCA AGATGCATTC CAGATGAACT GCTAGGTGAG GGGGAAGCTT CATTTTGTG 60
ACCTGATAGA ATAGCTTNC TNATGAGATA TATATAATGT GATACTATGT TTGGATATT 120
TTGGTCTTAA AGCAAGACTC AGTGGTGTAT CTNCATTAAG AGCTTCCTTT AAAAAGNTA 180
CAGGGNACT AAAAACAAC GNACCCAAAC AATCAAGNTG GGCCACCTT GGNACCTGT 240
TTGNATNAC CTTCCATGGT TTGGTTGGCG GTATGGNAA AGGATTGNNT GGTN 294

SEQ ID NO:7132

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08368

SEQUENCE DESCRIPTION:

GATCATGCTG TGTGGAGGAC AAATCTTTAA AATCCAGCA TTGTATTGTC TATTGACACA 60
CAAAGTTTGA AAATAAAGGG GCAAAAAATT TTAATGCAA AATGAAA 107

SEQ ID NO:7133

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08369

SEQUENCE DESCRIPTION:

GATCTGCGAT GGCTGACATN AATAGGTCAC CATGTTGGCA GCTGTATAAT CAGCAATGAA 60
AGCTGAATAT TATCACCAGA TAACCAAATT ATGAAATATC TATATNANCT TCANGATTCA 120
GGNCCANTGA ACCAGTATCT GCCCTTACGA GATTTAGCTG AANGTGAANT GCAAGGTGGT 180
GAACGGCATT CTAACAAGAG TGTGAAGAAA GAGATNGANG GCTGTCCGCT GCTGGAGGGG 240
AAGAANGGTG GGGCGGCTTT TNCAAGGCTC TGTGGCTCAG TGGACCTTCA ATANATTGGA 300
CCTTCAATAA ATTAATTGNA AANCANGN 328

SEQ ID NO:7134

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08371

SEQUENCE DESCRIPTION:

GATCTGAGGG ATTTGCTCGT CATTTGCTGT GGCAGAGATG ATGTTGACAC CCTGGGATGC 60
TGTGGGAGGG ACAAAGACT CACGTATATG TTCTGTCAAA TCGGAGAAGT AAATAATCCG 120

02029

TTGGGATGCC AGGATACTTT ATTCTACAGC GAAGTTAATT TTGTATCCGT CGAGGCTACA 180
 GTAGAGGTAA AAATGACATT GAGTTGTA CTGCTTTGAA TTAAAGTTGA TGGGTAGCAG 240
 CAAA 244

SEQ ID NO:7135

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08372

SEQUENCE DESCRIPTION:

GATCTTGACT CCAAAAATTA ATAAATAAAT AAAAATAAAT AAAATAAA 48

SEQ ID NO:7136

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08373

SEQUENCE DESCRIPTION:

GATCATGGTA TAATTAATTG AAATTTATTA AAATCTGTTT TTATTAAA 48

SEQ ID NO:7137

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08374

SEQUENCE DESCRIPTION:

GATCTGTGAC TTCAAGTTTG GACCGTGGAA GAACAGCACT TTCAAACCCA CAACTGAGAA 60
 TNATGACACA GGGACAAGTA GCAGTGATAC ATCAGATGAC GACGATGTNT GAAGGATTTC 120
 CTAACAGCTT TNGAAATCTT AGTGTGATAC ATCTCTCATA CAGTTTGGGG NGAATTGTNA 180
 AAATGAAAGG ACTATANTTT ATGTAGTGA ATACCCCN AGAAGAGGNN TTTTTTGGGG 240
 GCTTCAACTT GNTGGAAACC NAGANTN 267

SEQ ID NO:7138

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08375

SEQUENCE DESCRIPTION:

GATCATTGAA ATTCTGAGAA AACTTCTTTT AAACCTCACC TTTGTGGGGT TTTTGGAGAA 60
 GGTATCAAA AATTTTCATGG AAGGACCACA TTTTATATTT ATTGTGCTTC GAGTGACTGA 120
 CCCAGTGGT ATCCTGTGAC ATGTAACAGC CAGGAGTGT AAGCGTTCAG TGATGTGGGG 180
 TGAAGAGTTA CTACCTGTCA AGGTTTGTGT TACCCTCCTA TAAATGGTGT ACATAATGTA 240
 TTGTTGGTAA TTATTTTGGT ACTTTTATGA TGTATATTTA TTAAACAGAT TTTTACAAAT 300
 GGAANAAAGA NAAA 314

2153480

SEQ ID NO:7139

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08376

SEQUENCE DESCRIPTION:

```
GATCCAGAGT AAATGAGAAG TCTCTATCTG AGCTGGTCAG TTA CTGGAGT ACATGTNACT 60
AATCTGGGTT TAAAGTTTAC TTCATTATCT GCTAGTGTCA TCCACAGCAG TTCATCCTCA 120
TCCACACTAA GCCATCCTGT NAGCTTTTAA AGGAAGTTAA TTTAATTAAC ATTAATATAC 180
TCTATGGGCT CCTCTCCCA CCTGTCTGCA TAGAAAGGCA GAATTAGACA TAGCATGCTT 240
TGGAAAAGCA AATAGGAATT GTTGGGAATG ATTTANTCTT GTTGTGTGTG TTGTTGTTGT 300
TCACTTGTGG TTCTACATTC CTGGTGNATG NTGAATGTNG CTGTCAAGN 349
```

SEQ ID NO:7140

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08377

SEQUENCE DESCRIPTION:

```
GATCTTGTGC TTCCATTTAA GAAATTCTTC CATTTAAAGA AGAAAAAAAA TCTCTCTAAT 60
TGACTATCTG AAGATATATG AAAAAGCCTA TGCTTTTAAA TTAANCTGTT AAGACAGTCC 120
ATTGAAAGAT TGTGGAAGTN CACATCTATT TTNCACCTA ATTTTTTCCA TTGTCCCTAC 180
TCATGACTCT AAAAAGTGCA TGGCTTGGGG CTATACTTTG TTTTGCAGTT TGTGGTATC 240
GTGCCTTTCC TTATCTACAT TAGCTTAGAC TATACCTTNT TTTT NAGAAG GGGAAAGTGGN 300
AATTAAGTGT GGCAAAACCT ATTTNGGCAC ACCNCCTTTG TTCAATN 347
```

SEQ ID NO:7141

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08378

SEQUENCE DESCRIPTION:

```
GATCTTAATT CTTTGCAATT ATANATGAAA AATGACTGAT TTTTCTNAAA ATATGTAACT 60
TATNTAAATA TATCTGTTTG TACAGATTTT AACCATAAAA ACATTTTGG AAAACCATAA 120
A 121
```

SEQ ID NO:7142

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08379

SEQUENCE DESCRIPTION:

```
GATCTGGAAA CTATTTGGGT TTTGTTTTCA ACTTTTCATT NGGATGTTTG NCNTTGCACA 60
CACACATCCA CCGGTGGAAG AGACGCCCGG TGAAAACACC TGTCTGCTTT CTAAGCCAGT 120
NAGGTTGAGG TGAGAGGTTT GCCAGAGTTT GTCTACCTCT GGGTATCCCT NNTGTCTGGG 180
```

02031

ATAAAGATN TCAAGCCAGT TGGCGGGATG GAATGGNTGC ACCGCAAATA ATGCATTTC 240
 TGAGTTTTCT TGTAAAAAA AAATTTTTT AAGTAAGNAA AAAANAGGTA ATAACATGGC 300
 CAATTTNTT ACATAAAATG GCCTTCTGG NGTNTAAATT ATTCCTAAAA AAATCCNGTT 360
 TTATATANAC NATCCAGTTG NTGGAAAAA NTTTTCCAAA NGTTTTGN 409

SEQ ID NO:7143

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08380

SEQUENCE DESCRIPTION:

GATCTAGAAA ACTTTGGATT TTTGAAGTAA ATTTAATGT TTCATATTAA TTTCTTGAAA 60
 ATGTATTAAA TGTCAATTGAA AGCCTTAAA 89

SEQ ID NO:7144

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08381

SEQUENCE DESCRIPTION:

GATCACTGTG GACCATCTTA GCAGTTGACC TAACACATCT TCTTTTCANN ATCTAAGAAC 60
 TTTTGCCACT GTGACTAATG GTCCTAATAT TAAGCATGTT GTTTATATTT ATCATATATC 120
 TATGGCTACA TGGTTATATT ATGCTGTGGT TCGTTTCGGT TTTATTTACA GTTGCNANTA 180
 CAAATATTTG CTGTAACATT TGACTTCTAA GGTTTAGATG CCATTTAAGA ACTGAGATGG 240
 ATAGCTTTTA AAGCATCTTT TACTTCTTAC CATTTTTTAA AAGTATGCAG CTAAATTCGA 300
 AGCTTTTGGT CTATATTGTT AATTGCCATT GCTGTAAATC TAAAAATGAA TGAATAAAAA 360
 TGNTTTCATN NTAAA 375

SEQ ID NO:7145

LENGTH:513

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08382

SEQUENCE DESCRIPTION:

GATCTCGCTC CTTTGAGAGG TCCCATAAAA GCAAGCACCA TGGTGGCAGT CGCTCAGGAC 60
 ATGGCAGGCA CAGGCGCTGA CTTTCTCTTC CTTTGAGNCT GCATCAGTTC TTGGTNTTGC 120
 CTATCTACAG TGTGATGTAT GGA CTCAATC AAAACATTA AACGCAAACT GATTNGGATT 180
 TGATTTCTTG AAACCTCTA GGTCTCTAGA AACTGAGGA CAGTTTCTTT TGAAGAAGAC 240
 TATGTTAATT TTTTGCACA TAAAAATGCC CTAGCAGTAT CTAATTAATA ACCATGGTCA 300
 GGTTC AATTG TACTTTATTA TAGTTGTGTA TTGTTTATTG CTATAAAGAC CTGGAGNGTG 360
 AATTCTGTAA AAATGTATCT TATTTTATA CAGTTAAAT TTGCAGACAC TGTCTATTT 420
 AAGNGGTTAT TTTGTTTAA TGGATGGGNG ATNCCTTNTT AANCACTGGN TTGGNCTGGA 480
 TNGTGAAGG TTTTNCAGG GNNTAGTTCC TGN 513

SEQ ID NO:7146

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08383

SEQUENCE DESCRIPTION:

GATCTGAGAA TCTTTATTGA GAAAGAGCAC TTAAGAGAAT ATTTAAGTA TTGCATCTGT 60
ATAAGTAAGA AAATATTTTG TCTAAAATGC CTCAGTGTAT TTGTATTTT TTGCAAGTGA 120
AGGTTTACAA TTTACAAAGT GTGTATTAAA AAAACAAAA AGAACAAAAA AATCTGCAAA 180

SEQ ID NO:7147

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08384

SEQUENCE DESCRIPTION:

GATCAAGAAA CTGGAAGATG TGAAGCAATC TCTATTGAGA TAGCATCTTA GTGTTTLAGA 60
GAAATCAAGA ATTTTAAAA ACAAGAATAT CAACATTTGG TTTTGTGTAT AAGTGGTGT 120
TGTATTAATA TACTTTTCA ATGAACTGTA TAACTATGT TTTATTAAAC TACAATATAT 180
CAGTAAA 187

SEQ ID NO:7148

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08385

SEQUENCE DESCRIPTION:

GATCCAGAGG CGAGAAGCCA CCCTGTTAGA NCTCCTGTCC ATCATCCAGG TAAGTCAACT 60
CTCTCCTTTC AGGGCCAATC CCCAGACCTT TTGTTGAGCC AGGNCNNTAT CACCTNTCCT 120
ACTNACTTAA AGN 133

SEQ ID NO:7149

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08386

SEQUENCE DESCRIPTION:

GATCCTTGTC AAAATGAGAT TCCAGGTCCT AGAGAGCTGC TTTNAGGGAG TTCCAGGAGT 60
ACTTACTATT GGTCATGCAA TAGGAGAACA GAGACCCGNG GGCTGCTTTG GGGGAGGGGG 120
GAACTCGAGA ATGTATGGAT TTACCTGAAA ACAAATTATT CATTTAATCA AA 172

SEQ ID NO:7150

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08387

SEQUENCE DESCRIPTION:

GATCACCATT CAATTTGAGT TTCCAGGGGG AAGTGCATGT ATAATGAAAT GATAATGGAC 60
 TTCAATGAAG AATGTCATCA ATTATGTACA TATGTATTTN CTTTAAATAC AAAGTGTAAT 120
 TTTGTGCCAG TGAAATGGAG TCTGAATAGT TATGTGTTTC TTTTATCCCT GGAAATATTT 180
 ATTAACTTT ATAGTTTATC CGAGTATGTT GTATGCTTTG ACAATAAATG ACTATTTTCT 240
 TCAAAGCAAA 250

SEQ ID NO:7151

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08388

SEQUENCE DESCRIPTION:

GATCATCACC ACCACGGTTC CTGAGGACAT CATGTCCAAC CGAGGCAATN ACCTCCTGCT 60
 GAAGCTCCTG CAGNATCGGT ATCCCCGGGT GATGGCAGAG GAGGGTCTTC GAGTGGTGAG 120
 GCAGTGGTTG GAGGCCTCCT CACAGCTGGA GGAAGCCTCA NTTTATAGCC GATGGGAGGT 180
 GGAAGAGGAC TGGTGTCTGT NTGTCCTCCG CTCCTACCAG GCAGAACACG GGCCCGACTT 240
 CCCCTGGAGC GTGGGGGAGG ACATGAGTGC AGATGGACGG TN 282

SEQ ID NO:7152

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08389

SEQUENCE DESCRIPTION:

GATCAAAGTA GAAGCNTTGT AATAATGAAT TTAAGGCCAC GCAAAANCTT TCCTCACCTA 60
 TTGACATGAC ATCTAAAGA CATTTGCAAC TCGAAAAGCA TAGTGCCCCA AGTATGGTAC 120
 ATTCTNCTCT NACTCCTTTC TCAGTGCAAG TANTAAACAT TCAAGATTGG NCTCTCAAAT 180
 CGGAGCACTG GCATCAAAAA GANCTGAGTG GCAAANCTCA GAATAGTTTC AAAACTGGAG 240
 TTGTTGAAAT GAAAGACAGT GGCTACAAAG TTTCTGACCC AGAGAACTTG TATTTGACGC 300
 AGGGGNTAGC AACTTATCT GCAGNGGTTG TCTCACTCAA GAGNCTNTA GNCACACAAC 360
 CAGTCTCTGT TTCAGACTCT GGGTAANTTN N 391

SEQ ID NO:7153

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08390

SEQUENCE DESCRIPTION:

GATCTAAAAA TAATTCTTAA TCATGAATTT AATTCAGGAC TTCCTTGTTT TCAGTCTTAT 60
 TCAGTCTTACT GTAGGAGATT TTAATANACT AAAGCTTTTG TTGATTATG AGTTAGAAA 119

SEQ ID NO:7154

LENGTH:284

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08391

SEQUENCE DESCRIPTION:

GATCTTGAC CAAGCCAACG GGTNTCCTGG CTCTCCTGCC CACAGGATGA ACATTTTCGG 60
CTTCCTTAGG AGTTTGTCCC TACCGTATTC CAAAGCGTGT GCTGGTTTCT CATATTGTCT 120
GTAGGCTCAC TCAGCCCGCA GTTTATGTGT GTGCTTTTT CTATGAAAA TGATGTATT 180
TGCTACTTCC TGTGTACAAA GTTTTATTGT AAATGTTTT TGTGCTTTC ATGAACAGGG 240
GCCACGTTGT TGCAATTGTT TCAGTAGAAC TGGTTTGATT TCTN 284

SEQ ID NO:7155

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08392

SEQUENCE DESCRIPTION:

GATCGAGACC ATCTGGGTA ACACAGTGAA CCCCGTCTCT ACTAAAAATA TAAAAAATTA 60
GTCGGGCATG GTGGCGGGCG CCTGTAGTCC CAACTACTCG GGAGACTGAG GCAGAAGAAT 120
GGCGTGAAC CAGGAGGCGG ANTGCAGTG AGCCAAGGCG ACAGAGCAGG ACTCTGTCTC 180
AAAAAATAAA AAATAGTGCA CTGTCCTTCG AGAAAGTTT CTAACATCTA GTAATTTGTA 240
ACTTAGAAGT GGAGTTGCCT TGTGGATGTC TTTTTCAT TCTGTAGGN 289

SEQ ID NO:7156

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08393

SEQUENCE DESCRIPTION:

GATCCAATG CAGAGATGGC AGCTGAGTCA TTGCCAGTNT CCTTCGGGAC ACTGTCCAGC 60
TGGGAGCTGG AAGCCTGGTA TGAGGACCTG CAAGAGGTCC TGTNTTCAGA TGAAAATGGG 120
GGTACCTATG TTTCACCTCC TGGAAATNAA GAGGANNNNT CAAAAATCTT CACCACTCTT 180
GACCCTGCTT NTTTGGCTTG GCTGACTGAG GAGGAGCCAG NACCAGCAGA GGTCACAAGC 240
ACCTCCAGA GCCCTCACTC TCCAGATTCC AGTCAGGGCT CCCTGGCTCA TGN 293

SEQ ID NO:7157

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08394

SEQUENCE DESCRIPTION:

GATCACGATG TAAATAATNA AGCATTTTGG TAGGATGTCT ANNGTAATAA ACAATTTTGG 60
TACCATAAA 69

SEQ ID NO:7158

LENGTH:312

TYPE:nucleic acid

02035

2153480

TOPOLOGY:linear

CLONE:HUMGS08395

SEQUENCE DESCRIPTION:

GATCTTGGCC TCCCAAACCC CTTATTTTAA AAATACTTTG CGCCTTGCTT TGATAATTTG 60
TATTATGTAT CCAAACCTGAA ATNATCTGCT TTCTGCATTA GAATGTAAGC CCCCTGAGGG 120
TTGAGTCAGT CTGTCTTGTT TGCTGTGCCA CGCCTGATGC CCAGCCCAGC AGCATGCTTT 180
GTACACTGAT ATATTGGGTA AATTTTGTTG AATAAATTAA GCTCAACTAT TTGTATTCA 240
ATAGNTTGAG TTGTATTGCT TCCTGTTCTT CAAGCTTAAA TTTGACCTGT CTAATAAAAA 300
GGAGNAATTA AA 312

SEQ ID NO:7159

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08396

SEQUENCE DESCRIPTION:

GATCTTTTGT GGTCTGTAA AAGATACTGA GGAATGTNTT TCAGCCAAGC CAAGAGGATG 60
GTTTCAATAA ACCTAATAAT CTGAAGTTCA AA 92

SEQ ID NO:7160

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08397

SEQUENCE DESCRIPTION:

GATCTTGCAA TATATACTCA GGAAATTACC ATGGGCAGAA TAAATGCTT TAAAAATAA 60
A 61

SEQ ID NO:7161

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08398

SEQUENCE DESCRIPTION:

GATCCAAACT GNAGAACTTC TCATTCATCC CCAAGGCCTC CAGGCAGTAT CCAATGGGGA 60
ATCAGCTCTA AAAGGAACCA GACCAACGTT TTCCAGCCCC TTNATTCTGC TTCCNTCTGT 120
NTNAGGAAAG GNTAGAAATN TTCAGGGCAT CATCATACAG GCTCCTCATC TACAAAGTTC 180
CAGTAGCAGT GACGCCTACA CGGAAGANTT GGAAGTCAA ACAGGCTGGG GTCACCTCAN 240
TNGCATCTGA CGCTGTCCAA CCAGAAGTTC GATTTTNTN CTGGGGGTGA AGGTGGAAC 300
AGACTGTACT TAAAGGNTN 319

SEQ ID NO:7162

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

02036

2153480

CLONE:HUMGS08399

SEQUENCE DESCRIPTION:

GATCCANAAA TAAGTTTAAC TTACGGAGGC TTCTAGTTCT AAAGATGCAA NGTAAGATGC 60
CAAAGCAGTG GAAAGATTGA AGTCAAACAG TCGGGCCCAT GTGTGTGTCN TACNTCAACC 120
NTTNGTGTGT TATN 134

SEQ ID NO:7163

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08400

SEQUENCE DESCRIPTION:

GATCTATGTG TCTGTNTGTG TGTCCATCCC GCCGACCCCC CAGACTAACC TCCAGGCATG 60
GACTGAATCT GGTTCCTCTC TTGTACACCC CTCAACCCTA TGCAGCCTGG AGTGGGCATC 120
AATAAAATGA ACTGTCGACT GAACAAA 147

SEQ ID NO:7164

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08402

SEQUENCE DESCRIPTION:

GATCTAGNAA CTAGNAAATA CTATTTGTCC CAGCAATCCC ATTACTGGGT ATATACCCAA 60
AGGAATATAA ACCATTTAAT TATAAAGATA CATGCAGATT TTTATTCATT GCAGCACTCT 120
NNACAATAGC AAAGACACAA TAGCAAATGC CCATCAAAGA TAGACTGGAT AAAGAAAATG 180
TGGTACATAT ACACCATGGA ATACTGTGCA GTGCAGCCAT TACAGCTTTT GGTGATACAG 240
TGAATCAGAT TTTNNATTAA TTCTTTTAAT TGTTATTAC TGNNCGTGGA NNAGTAATGG 300
TTTGTATTGG NATCCTTGNN 320

SEQ ID NO:7165

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08403

SEQUENCE DESCRIPTION:

GATCCATATT TTAAATTGCA ACCCTGTTCC CTATGATACC TATCTGTCTA TGAATGAAAC 60
AAAGGTTTTA CAAA 74

SEQ ID NO:7166

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08404

SEQUENCE DESCRIPTION:

GATCCAAAGA ACTTCTGTTA TATGGGTTAT AGCTGTTAAT ATTTGTCATA TTCGAAATTG 60

02037

2153480

AAATAAGATT TTAAGGTATT TAAAAATAAC AGTNCAAAAC CATTGTATNT TGACATGAAT 120
AACACTTTTA TGAATAAAC TATATTCCAA AACAATAAAA TTACCAAAAA GTTGCAAA 178

SEQ ID NO:7167

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08405

SEQUENCE DESCRIPTION:

GATCACAGAT TTCATCAGGA TTGAGCTGCG TGGTAAGCTC GCCACTCTGG ACAAGTCACA 60
GGGTACCCAT TATTTAGCAA TAAAAGCTTT AACTCAAA 98

SEQ ID NO:7168

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08406

SEQUENCE DESCRIPTION:

GATCTCTGTG GCCTAGGTTT TGTACATACA GAAACTGCAT GGTATTTAAA TTATTGTTG 60
TCTCTGATGA TGTATGCAGT TTCTTTAAAA ACAACCAAA AAAAAGTAAA 110

SEQ ID NO:7169

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08407

SEQUENCE DESCRIPTION:

GATCCTGAAG AGCGCTGAGG GACGGGTGCT TCGNCGANCA GCACCAGCGA NACGTCAAAC 60
TCATGAGACA GATGCTAATG GATGCCGNCC TCCCTANTTG TCCACTGCCC CAGCCACATC 120
ATCCCTGTGC GGGTTGCAGA TGCTGCTAAA AACACAGAAG TCTGTGGATG AGCTAATGAG 180
CAGCCATAAC ATCTACGTGC AAGCAATCAN TTACCCTACG GTGCCCCGGG NAGAAGAGCT 240
CCTTCGGGNT TGCCNCNACC CTTNNGGGGG GACCCCAGGA TTGNTGGAAC TAANTTCN 298

SEQ ID NO:7170

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08408

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCGGCCTC CCAAAGTGCT GGGATTATAG GCGTGACCNC TGCACCCGGC 60
CAAAAGTTGA TTTTAAATTA CATAAAATC GTAAAACTT CTAGTAAAAA CTGATTNNG 120
NGANTACAGT TATATTTTAA AACCTTAAGG TGACAAGCAT TTTCTATGCC TAAATCTTCA 180
TTGGTTTGCC TGGAAAGAGT CTCTGTAAAA AGATTTTCCA TATTCAAAGT AAAAGGAAAG 240
ATTTCTTGCT TTCTAATTGT CTTTGGACA CATGCCTATT TTCTTTGAGG TATAANCCTT 300
TAGATGTGAA ANATGTAATT TCCATTNN 329

02038

2153480

SEQ ID NO:7171

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08409

SEQUENCE DESCRIPTION:

GATCCAGATT TTTCTGTTG TGTCTGAAGA GAACCATGAC ATTTAGAAGT ATATTGGTAA 60
TCTATTAGGT CCATTGGCAA AGTATATTGG TCCATATTCA AACCTATTCC AAAAGGTTAG 120
AAGTGTTTAA GATTCCTTTA TTGTGGTACC ATGTCTGTTT ACCTATGCTT ATGAGCAACA 180
ATAANTTACT AGTTTACCTT CTGGAATTTT AAA 213

SEQ ID NO:7172

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08410

SEQUENCE DESCRIPTION:

GATCTGGTGG GCAGTCGAAC CATGGTGAAC TCCACCTCCG TGGAATAAAC GGAGATTCAG 60
CGTGGGCGAC TGAATCCAGC ACGTCTGTGT GAGTANCGGG ACAGTAAACA CTCCACATNN 120
NNTCAGTTTT TCACCTCTAC CTACATATTT GTATGTTTNN NTGTATAACA GCCTTTTCCT 180
TCTGGTTCTA ACTGCTGTTA AAATTAATAT ATCATTATCT TTGCTGTTAT TGACAGCGAT 240
ATAATTTTAT TACATATGAT TAGAGGGATG AGACAGACAT TCNNCGGGNT ATTNCTTTTA 300
ATGGGCACAA AATGGGCCCT TGCCTCTAAN GN 332

SEQ ID NO:7173

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08411

SEQUENCE DESCRIPTION:

GATCCAGAGG CTCAGTGAAC CCCATCAACT TGGTGGCCCT GGTGTCTCAC ACTTGTATCC 60
TTCTGCCCTC GAGACCTGGC ACAGCAGTAT CCCTTGAAGA AATCCTGAGG CTTTGTAGAG 120
TGCTCCTTGA CCATGTTTAA TAATTCTTCC CTCCCCTGCT TGTNTATTTT TTTCTCTTCA 180
CGGCTCTTCC TATACCTTAG GCCAGTCTCA AGCACTCACT GGAGACCCCT GGGCCTTGGG 240
CGACCATTGA GTCCTAGTCT CCCTTGTTTG TGCCCCTGTA GGAGGTAGGT CCTTTTNTCC 300
TCCGGCCTAG TAGGGGACCT TGGGTAACAT TN 332

SEQ ID NO:7174

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08412

SEQUENCE DESCRIPTION:

GATCTGCTTT GCAGAGGAAA TAACTTGTTT TTTCTCATGT TTCATCTTCT TTTTATGTAA 60

02039

ATATGTAATA CTTTCCTATA TTGCCCTTG AAATNTTTGG ATAAAAGATG ATGTTTAAAG 120
TTCCAAA 127

SEQ ID NO:7175

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08413

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCAGCCTC CCATTGTTGA CCATTTTAT ATGTTTATT ACCTATGTGG 60
TTTTCTTTTC TCATAAAATG CTTGTTTATA TATTTNCCCC ATTTCTACTT ATCTNGTTCT 120
TATTAAATNG CCAAAGTGCA TAAA 144

SEQ ID NO:7176

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08414

SEQUENCE DESCRIPTION:

GATCATCTCT AAAATTAAAA AAATTAATAT TAAATGTTGG ACCAAGGATT TCAACCATGC 60
AGTATGTTGC TTCTGGGGTC TGCTGTCCTA TTCCAGCCCT AGTGAATAGT TAATGCCTTG 120
AACTATTCCT ATCACCACAG GTTGCCAGGC CACCAAATAA CGAAGCCAAT CCAGGATTG 180
TCCATACAGA AAATGTGTGC GCTCCCAGCT AAATCTCAGT TAAGGAGGTT GTTCTATATA 240
CAGCCAAGTA GCAGAAATAT TCATAAATGT CATTGCAAA TATAATAAAC ANTGTAATGA 300
ATGGGTATTT CTTTCTTGT TAATTCTATG TGCTCAATTA AAAGGNN 347

SEQ ID NO:7177

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08415

SEQUENCE DESCRIPTION:

GATCATACTA ATAATTTAAT ATTTGAATTG TATGGAAGTA CAATTCAGTA TCATTTTACA 60
TATGGTATAT TGTGATGCTG TATCATATTT TATGTTACGG TTTATAAGAA AAGCTCCTAG 120
GTATAAAATG CTACATAGCA GGAAGTTGGT TTTTCAATGT TATTATTTC TACTGTTTTT 180
GACGTAACGG CAATAAAATT TGTTTGAACC AAA 213

SEQ ID NO:7178

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08416

SEQUENCE DESCRIPTION:

GATCTTAAGA AGAGAATAGA ATCTTTAATT GACCGGGACT ACATGGAAAG AGATAAAGAA 60
AATCCAAACC AGTACAACTA TATTGCATAG AATGTTGGCC TTGCAGCATT TGGTGTCTA 120

TGCAGTAGCC AGTGGATAAA CTAACCTGTT GATTCAATAA A

161

SEQ ID NO:7179

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08417

SEQUENCE DESCRIPTION:

GATCATGTGC AATATTTCTT ACTGTGCCGA GAAGCCACAA TGAGCGAGAT TAAAGCTGTT 60
TAACACAAA 69

SEQ ID NO:7180

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08418

SEQUENCE DESCRIPTION:

GATCTCTGTT CCTTTGGCT CTAATATGCT ACAACTGTAG GCCAATTATC ACTTTACCAA 60
TTAAGAGTTA GGCCAGATAA GTGAAATTTA ACTTAAGGGC ACACAGCTAA TAAGTAATAG 120
GCCTAAACTG GATTTCCTTA TTCCAAATCC TGTCTTTTCC CCACTATTCC ATTAGACCCC 180
ACAAATGTTA GTTGTGTGTG TGTGTGTGTG TGTTTTTAAT CACTGTAACC GGGTGCATT 240
TTTTAAGGCA AAATTTCTCC CTTATCTACT GTGATGACTT CAGAAGATAC ANTGGTCCCA 300
GGGGCCAAGT AGAAAGCATT TTAAAGNTT AATCTGAATT AAGCTGAN 348

SEQ ID NO:7181

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08419

SEQUENCE DESCRIPTION:

GATCCACTTC TGTAATTAAG TACNTGGTTG TCTCGTGATG CGTCTACAGT TATTTATAGT 60
TACAACCATT ACCNGNCACT GTAGATACAC ATATAAAAT AGNTGTNGG TATCCATAGT 120
TNCGCTTGTT CN 132

SEQ ID NO:7182

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08420

SEQUENCE DESCRIPTION:

GATCTCATCA CTGCACTCTA GCCTAGGTGA CGGAGCGAGA CCCTGCCGCT AAATAAATAA 60
ATAAATAAAT AACATAGTAG TGAAA 85

SEQ ID NO:7183

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08421

SEQUENCE DESCRIPTION:

GATCATGGAC TGGTGCCTTT GCATTCAGAA GGAGAGCTGT CAGCGTANAC CGAATTCAAG 60
 ACCAAGGCGT GCTACCTGAG CTGACAGCTT TTTGAAAGCC GAGCTGTTTC TGAACCATGT 120
 ACATACATGT TCTGAAACTT TCTCATCATT TTATGAGTAC TGTTCATTGA GAGATGACAA 180
 TGAAGATTAG ATGAAATTGG AAATAAACCA ACATTGTTTA CAAA 224

SEQ ID NO:7184

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08422

SEQUENCE DESCRIPTION:

GATCTCTGCA GTATTAAAA GATGTACTCC CAATTAAA

38

SEQ ID NO:7185

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08423

SEQUENCE DESCRIPTION:

GATCTTTGGC AGTGCCAGCA GGTAAATTT TGACCTGCTC AATTAAAAAT AAACACTGGC 60
 GTTTAAA 67

SEQ ID NO:7186

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08424

SEQUENCE DESCRIPTION:

GATCTTCAAA GAAGAGAATG TAATTTATAC CATGAATATG TTATTTTTC ATGTTGGAGC 60
 ACTGAAATAC TTTCAGTTTG TTTTCTTATT GTTTAAATAA AATTTTAAAT TCTTAAA 117

SEQ ID NO:7187

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08425

SEQUENCE DESCRIPTION:

GATCTTTGTT ATTTTAGGGG GGAAATCACA TGGTATCTAG CATGGGACAA AGCAGCAAAA 60
 TAAACCAAAA GGACAATCTC TATTTTATAT AGAAAATAAA CATACTTTNC TGCATCCTGT 120
 GTACTTTAAG TATATCTATA TTTNTNANGG GTTCATACTG TGTGANTTT NCCTNATGAN 180
 ATAGTCACTT CCCCAGTGTA TTTTAATGCA AATGCATATN CTATAANNTA N 231

SEQ ID NO:7188

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08426

SEQUENCE DESCRIPTION:

GATCTCTGTT CTAAGAAAAG GAGTGTGCCT TGCATTAAAA AGGAAATATT GGTTTCTAGG 60
 GAAGGGAGGA GGCTAAATAA TTGATACGGA ATTTTCCTCT TTTGTCTTCT TTTTCTCAC 120
 TTAAGAATCC GATACTGGAA GACTGATTGA GAAAAGTTTT TAACATGACA TTAAATGTGA 180
 AATTTTAAAA ATTGAAA 197

SEQ ID NO:7189

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08427

SEQUENCE DESCRIPTION:

GATCAGGAGA CAGGGAGGCC CCGCACATCA CACAGATAAA GTCAGACAAT TGTAATTAAT 60
 ACTTTTGCTG CCTCAAGTTG TTTTAAAT AAAGTACTTT GAAATGCATG AGAAA 115

SEQ ID NO:7190

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08428

SEQUENCE DESCRIPTION:

GATCCTTGTT GGCATTATTC TAACTGATAC GTAGACACTT ACTTGGAAAN NNNNGGACAT 60
 TATATTAAAT GAGTGCTATC TGTGAAATG GTTATATTAG GTGGCTTGAC TAATGTTTTT 120
 CCTATAATTG TATATGGACT GCATTTTAA AAAAAACCGC ATTTGCCTTT ATGCTAGATT 180
 GTAAAAAATT ATATTAGAAT GCATAAGACA TGTTTTNCCN TCATATGCTA GACTTTNCCT 240
 AGCATTTTCGT ATTTCTGTGT TGTCAGTGTG TGATTTTNA ACCGGAATTT GGTTTAAAAA 300
 AAATCTGGTG GTAATATATG TGAGAANTN 329

SEQ ID NO:7191

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08429

SEQUENCE DESCRIPTION:

GATCTTCATT CCAAATTTTA CTGCATGGAA ATGACTAATA ATGTGCATAA AAAGTAACT 60
 ATAAGGATGC TACTGTCAGG GTGGCTTATA TTAACACAAA TTCACAAACA ACTCCACTGT 120
 TCCAGCACAG CAGTGTGTTG TAAATCATGA CATGTTTCTA TGCTCAATTA CTATCCAAT 180
 TTTGAGAATT AGGTTGGAGA TATGTAATTN CCAATATGAA AATAAATTC CTATATNCTA 240
 TTTAGTAAAA NTAATTCATA AATNTCCATT TTNCAAACA CTTCATGAAT TTNTCCAAA 300

ATACANATGT TATCTATCCA TTTNGGAATT AGGANTGGTT NNNATCATTT TGN 353

SEQ ID NO:7192

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08430

SEQUENCE DESCRIPTION:

GATCTCAGTT TTTCCATCAA AATTATAATA TGCTCATGAA AATAATATTA ATTTGCCTTC 60
CCTTTGCAAA CACCGGCAGT TGAAAGGAAA AGGACGGGGA ATGTGANNNN AAAGAGACCG 120
CCTGGAATAA ATGTCCCCCT ATGATTCTTT AAGGCAGTGG TTCTCGAGCT TGAATTTTCA 180
TTAGGAAATT CTGTGAGGNG NTTGTAACCA GATTCTGGG TCTGCCACAT GCACCTATCT 240
NTNGCTGAAT TGCTTAATA GAATAATGAG AGCAAGTTTG TCTAACTAAT ACCAACCTGN 300
CANCTTGAAT ANCAATAAAA TGCAATTTGG TACATAAATT ATAATGCTGC NN 352

SEQ ID NO:7193

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08431

SEQUENCE DESCRIPTION:

GATCCTGGAG AGGAGAAATC CTGGCCTCTG CTCATGCGCA GGTCAACAAC GGGCTGGAAG 60
TGCGGTTNAG CTCTCTGCCA CTTTCTTCAA TGTA AAAAGT AGGCATCAA GATACGACTT 120
CTACTATATA CATTTNTNTG TCCCTGAGAA CAGAGAAACG TAACCCTGTA GGGGACTGGT 180
TACAGAGGAC CTCCTGGAGC ATCTGCCCCA TTCCTCCAAG TCCAAGCACA GCCATGCTGA 240
GTGGAAGCNA GGCCACCATC TGAGTGGATT GGTCCCAAGT NTGTAATGAG GAAAGTGGCC 300
AGGTGCCGGC ACAGTGCCCTC TCCCAGAGCC TCAAGAAGGG CCATTNGN 348

SEQ ID NO:7194

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08432

SEQUENCE DESCRIPTION:

GATCACAACT CTCAGTCTAC CTGGAACACC CCACCCAACA TGCCTGCTGC CTGGGGACAT 60
GCCAGTTTCA TCAGCTCTCC GCCCTACCTC ACAAGCACCC GAAGCTTGTN TCCAATGTCT 120
GGACTTTTGG GTTCCATCTG GGCCCCGCAA AGCGATGTGT ATGAAAATTG CTGCCCCATC 180
AACCCACCA CGGAACATTG GACCCACATG GAAAACCAAG CGGGTCGTGT GCAAGGAATA 240
CTACCCGGGG TTCAACCCGT TTCGCGCCTA TATGAACCTG GACATATGGA CTACCACAGC 300
GAATAGGAAT GCAAATTTCC CACTGTCTAG AGACTCGAGT TACTGTNN 349

SEQ ID NO:7195

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08434

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCCTGAGCCA CTGCGCCCAG 60
 ACCAAAAGTT TTTTAAATG GATGTTTTAC AGATAGAACT AAATCTTCA TTTACCTCAC 120
 TTAATTTCTG AAAACACTGT GTCCTCCAAC TGCTCTGTAT TCCCAAAGAT TAAAATTAGC 180
 CTTGGGGAGC AGAGCTGGT CCTCGTAAAC CCCTGTGAGT GCCCAGACCC TTTGGAGGAG 240
 GTTCTCAGTG GGCTTTTGCC TGCTCCACA GATGTAACCC ACCCTTCCTG CTGCTCCTAA 300
 GACCACCATG AGGAAGGCTG GGAATTGGCT CTTGAATTAA NN 342

SEQ ID NO:7196

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08435

SEQUENCE DESCRIPTION:

GATCTGCATT TNNAGGTTC GAGCCTGACC CCTGGAAGT ACCAGCGCTC GATTGTNAGC 60
 CTTGGCCTGG GGTTTAACC TTGCCAGTGA AGTTTCGGTT TTAAAGTGAT TAAATGTCAC 120
 TTCCTCATCA GTTTCACCTC TGGAGGTTTT CTTATCCTAC TCCCTGGTGC CAGGGACGTA 180
 CCTGGGAGTT TGAATCAGGC CCATTTGAGC GTGGCAGCCG TGTGGGTGA AGGTCCGGGG 240
 CTCGGTGAGG CACTGGGGGG GTTTTCGGGA GGAAAATGAA AATGCTTCTA GAATGAGTGA 300
 ACCACATCAT AGCTCTCACT GTTTTTTCAA TAGCTACTTT TTTTAGCAGA CACAGAGCC 360
 ACAN 364

SEQ ID NO:7197

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08436

SEQUENCE DESCRIPTION:

GATCTCAAAA TAAATTCAGA AAGAAATAAA 30

SEQ ID NO:7198

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08437

SEQUENCE DESCRIPTION:

GATCTGCCTA GCCAACTTTC TTAACCCAAG CCCAACTGA AAGTCTAAAA GATGTATTTC 60
 TGGGGAATTA CCCACCTCA ACATTCTCAG GTTNCCAGT GTNCTCTGTC TGTNTCAGTA 120
 TTTTAAAAAC ACTAATCAA TAATNCTCAA AAATCAAAGT CTGCTTTNAT NATCTGGTAA 180
 TAAAATAATA GGCAAA 196

SEQ ID NO:7199

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08438

SEQUENCE DESCRIPTION:

GATCCGCCCC TCTCCGTCTC CCAAAGTGCT GGGAATNACA GGC GTGACAN CCAAACCCGG 60
CCTGATTAAA GTTAAATAAA TACTAGTTCC CTTCTCGTCA AA 102

SEQ ID NO:7200

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08439

SEQUENCE DESCRIPTION:

GATCAGTGCA TTTAGACATC CAGAAGTTAC TTCCACTATT GAGGAACTAT GTAGACATGA 60
ATTTAAGCTT GTACATGTGC CAATCTTGTT AATGTCACTT GACCACTGAT TCACATAGAC 120
AGACATTAAC GTCTGATGCC TCAGGTTGAT GGCGAACTTN CTTCTAGTG TCTTAACATT 180
TATGANCTTA TGTTTGACTT GAGGGGCATT TCAGCAAAGC TGTGNAGGAA AAGTAGGTTT 240
TGGNCTGATG TCTGCTTTGT NCCATAGACA TTTTGGAGCA TAAGGNAGTA TCTNCTTCTG 300
CTATATGTNC AGGGCTTGTC CCCAAATNAA TTCCTGATTT N 341

SEQ ID NO:7201

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08440

SEQUENCE DESCRIPTION:

GATCTNCTAC AGTTCCTNCA AGCCTAGACA ACCTAAGAAA CTTTACTATC AGCAGCTTAA 60
GATGAAAATC ACAGACTTTA AGAACAGGCG AAGTTTTAAN TGTATATNNN 110

SEQ ID NO:7202

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08441

SEQUENCE DESCRIPTION:

GATCCAAAGA AATAATCCAA AATAAAAAGT TATATCCAAG ATAAA 45

SEQ ID NO:7203

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08442

SEQUENCE DESCRIPTION:

GATCCACAGT GGAGTTT TAG TAATTATATT TTNTTGATTT CTTCAATTTG TTTTCTGGTA 60
TAAAGTAGA GATAATGTGT AGTCACTTCT AATTTAGTGA AACCAATTGT AATAATTNTG 120
GAAATATTTT GTCTTTAAGT GTAAATATTT AAAAATTTGG CATACCCTAA TGTNAATAAT 180

AAAAAGAACT ATTTGCAGAA AA

202

SEQ ID NO:7204

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08443

SEQUENCE DESCRIPTION:

GATCGGAAAA CTCTGATTGA ACCATTCACT TTATTAGCCA GTAACTTTC TCAACCCAG 60
AGCAAATCAA GCTTTCCTTT GCCTGGGAGG AAAANCATAG GGAAGCTCTAA TTCTGAGAAC 120
TAAAAATCAG TAATTTCCAC AATTGTATGT TGAATAGTGA TTGCCTTTAN GNGNCTGTGN 180
NCATGGAGTA ATATTACTAT TTAAATAGG CCATTGTAT CTACCTTTGG TCCTTAGGAA 240
AATTCCTAAG GAAGTCAATT AATGCACTTT NAGATGTAA AAGTATTTGG GCTAAGGTTA 300
TTATTGCCTG ATATGGAAAT AATTATNNTT CTGNTTN 337

SEQ ID NO:7205

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08444

SEQUENCE DESCRIPTION:

GATCAGTGAC AATTTACAGG AATGTAGCAG CGATGGAATT CCCTGGAACA GTTTTTGTG 60
TTTNTTTTGT TTTTGTGTTT TGTGGGGGGG GGCAACTAAA CAAACACAAA GTATTCTGTG 120
TCAGGTATTG GGCTGGACAG GGAAGTTGTG TGTGGGGGTG GTTTTTTCT CTATTTTTTT 180
GTTTGTGTTCT TGTTTTNAA TAATGTTTAC AATCTGCCTC AATCACTTTG TCTTTTANAA 240
NGNTTCCACC TCCAGTCCTN TCTCCTCCCC CCTACTCAGG CCCTTGAGGC TATAGGGGGT 300
TNCTTNGAGG ACCTCANCAA AATCCCAATC CAAGTNAACC TTTGCACAN N 351

SEQ ID NO:7206

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08445

SEQUENCE DESCRIPTION:

GATCTATTTC TTTAAAAGAT ATTTGTGCAG AACTGCATG TAACTCTAAG TTTTACTCCT 60
AACATACATA TGTTTGGGGA AGTATTCTAT TCTATACTTG CCAATGTGGA GAACAAAATA 120
GTTTTTTTAA GAATGAAGAA GTATATATAT CCATTCTGTA TTTTACGTGC AGCAGAATTA 180
TCTTCCGTAG GATTTTTTTG TGTATTCACA AGGTGATATT TGTATTGTAA AACAATAATG 240
GTGAAGGAAA TAAAAAGGCT TTAAAAATTT AAA 273

SEQ ID NO:7207

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08446

SEQUENCE DESCRIPTION:

GATCAGATTT TTAAAAAATG GATTTCAT ATAAATAATA TTATCAAAAA AGGATTCTC 60
 ATATAAATAA TATTATCAAA AAAGCTGATT TTTAAAGTTT CTCCCAAAGT CTTATTCTAG 120
 TAATTATAGA GACCTAGGTA ATGAGTGCCA GATATATCTG CCTTCAGAT ATGCCGTAAT 180
 GTGAAAAATA ACACAGTCAT GTGATATTCT TNATTAATA AACTGTGTT GTTTTATTT 240
 TGGAGTAGTT CTCATAATTC ATTGGTAGGG AACTATCCAG TATTATATT CCTATGTATG 300
 TNTATCAGNT TAATTTTGAG GCTTGGAN 328

SEQ ID NO:7208

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08447

SEQUENCE DESCRIPTION:

GATCTGTACA TACAGTGTTA AGAATGTAGA TATTAATAATT GTTATATTTA GCTGTTACAT 60
 AATATTAAGA CTCAGAGTTA AGTAATTTCA CTGAAATTGA TTGCTTTTGG TGTCTTGGAG 120
 TCAAAATAAA TAACTGAAAT CTAAA 145

SEQ ID NO:7209

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08448

SEQUENCE DESCRIPTION:

GATCTGTTNA CATAAGCACT AGTCACAGGA CTACTCGTGA ATTTTCATCA TTTATTCTAT 60
 TGTGTTTATT CATGATATCA CCTTAGTAAT TTTTGAAAAA AAAAANGTAC CACACTGGC 120
 CAAANGCTCA TCAGGCTGAT TGTTTANCTG TNGCTGATTG CTTATCTTTA TATTGTATGA 180
 CCCNGGGGNT NGNTTTGAAN GTTATATTAG GTTTGAAATG ANTTATN 227

SEQ ID NO:7210

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08449

SEQUENCE DESCRIPTION:

GATCTTTGAA CTCTGCAATA TGAAGCATAT ATGTGAGTGC TTAGCTTTCA CTCTCTTTCT 60
 GTGTGTGTGT GTGTGTATAC AGATACTAAG ACACAGATAC ATTCACATAT ATACATCTAA 120
 ATATATATAC AGTACAGTCC ATATTCAGAT TTCTTCAAGG TTATGGGTCT ATTGTTTAAA 180
 TTCGGAATCC AGTCAAGGAC AACACATTAA AATTGATTGT TTTGCCTCTA CAGTGTGTTT 240
 TTTTGGTTT CATGACATTG ACTTTGATT GAATAGGTCA GACCATTTC TGTACTTTAT 300
 ANAGGCACTT TGTAGATTG TCTGATGATT TGN 333

SEQ ID NO:7211

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08450

SEQUENCE DESCRIPTION:

GATCAAGAGA GTTCGATTGG CCAAAGAACA GGAATCCCGG GCAGATTGTA TCAGTGAGTT 60
TATAGAATGG CAGTATAATG ACAATAACAC TTCTCATTGT TTTAACAAAA TGACCAATCT 120
GAAATTAGAG GATGCAAGGA GAGAAAAGAA A 151

SEQ ID NO:7212

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08451

SEQUENCE DESCRIPTION:

GATCTGACAG ACGTCAATAC CTGCAGGCGT CTACAGAGAG GAAATTTGAT AAAAATATTT 60
TAGTCACTGA CTACACTACC ATTATCTGAA GCATTGAGAT AAGACTTAGC AGAGAATGTC 120
AGATTTTGT TTCAATTATA ATTTAGAAA TGCAAAATCT TATTTTCT AAGTTGCTTA 180
TTGTCTATAT AAATGTTTAA TATCATTTAA AAACATGCAG AATAATACAC CTGCAGAATA 240
AAAGAGCTGA AATTAAATA TCTTTTCAA TNAAA 275

SEQ ID NO:7213

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08452

SEQUENCE DESCRIPTION:

GATCACTTGA GTCCAGGAGT TTGGTGTTAC AGTGAGCTAT GATGGCACCA CTGCACTCCA 60
GCCTGGGCCA CAGAGTAAGA ACATGTCTTT AAGAAAAAAA AAN 103

SEQ ID NO:7214

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08453

SEQUENCE DESCRIPTION:

GATCTGTAGA CATGAAGGCA AAGCTCTTGT ATTTTTTTT CATCCAAACA CCTCAATTTA 60
TTTTATAAAT TCGTTCATTT TTCCTGTTAT GTTTTATATA ATATATGGAC TAAACAAAAT 120
AAAATAACAG TGCAAAAGAG GAAA 144

SEQ ID NO:7215

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08454

SEQUENCE DESCRIPTION:

GATCAGAAGA GGATGACAAT GGCAACAAGT GTTTGGAAGT TCCAAGGTGT GTTCAAAGAG 60

GCTTGCCTTG AGGGAGGGCT GGAATCTGTC TTCCCTGACT CGGCTCCTCA GGTCTTTAGC 120
CTCCACCTTG TCTAAGCTTT GGTCTATAAA GTGCGCTACA GAAA 164

SEQ ID NO:7216

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08455

SEQUENCE DESCRIPTION:

GATCTGAAGT CCCCCAACC CTCTCCAAGT AAAGTAGTTT ATTAGAAGCT CTTAAGTCTT 60
TAATAGACCT GCATATTTCC TTCCCTTATG ATTTCTATA AAATATAGTT TATGGTGTTA 120
TATTTTAAAC TGAAATACTG TACATATGTA AATAACTCTT GACAGGAAGA AAATATATTA 180
ATGTAGTATT TGCCCCCTAT CAGTGAGCTG AACAAATACA TCATTAAAT CTATGCTGCA 240
CTTTGAGTTG CTACAAATAT GGTTCGNITT GTTTATTTT GAAAAATGTG ATAAAGAAAT 300
CTAAAGANTG NNNAANNNTAA NNNNNNNNG NN 332

SEQ ID NO:7217

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08456

SEQUENCE DESCRIPTION:

GATCTGTACC ATCCTGTTGC TGCTGTATGC GTTCCATTGA TGGGACATCT TCAGGGACTC 60
TTGACAGCCA CCGCTTTCAC ACCCTGGTCT GGAATAAGGA AACATCGGAG GGAGAAGTTG 120
ACTGTCTTGA TAATTAGCCT GACCAGCAGG ATGAATGCAA GACTGACAGT GATGGACTCT 180
GTGACATGGT CAGGTTGAGC TGAAGCCACA GTTCTCTGT GCTGTGTTTT CTAACACATT 240
TTTCTGTTTT TAATTAAAAA AANNNNNNNA GGGTAAA 277

SEQ ID NO:7218

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08457

SEQUENCE DESCRIPTION:

GATCTTAAAC TCCTGACCTC AAGCAGTCTA CCCCCGTTGG CCTCCCAAAG TGCTGGGATT 60
ACAGGTGTGA GCCACTGCAC CCAGCCAAGT TTATGTATTT TNATTCTTTT TCATGAATGT 120
GATTTGTAA ATNAGTGATT AAATATAATT TTNATATATT TGTATGACTT TNCTGTAAAT 180
AAAATTTAA ATCAGAAA 198

SEQ ID NO:7219

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08458

SEQUENCE DESCRIPTION:

GATCTGCATC TNACGCCAC TGCACACCGT TCCTCTCCAT CTGCCCTTCC CTCCCAGGCC 60
 CCCGGTCGGG GGAGCAGGTG TGGCAAGTGT TAGGAACTCC CTTCTGGTGA CAGCTGGTCT 120
 TCCTAGAGTG TTGCTGGTAA CTATCGCCTC TTGGTCTTCT GACATCATG CCAGGAACGG 180
 GGCACTTTTT CGTCTTGTAG TTTGGCCCTC GGGTTTCCTC ACTAGGTATT GTGTAAGTCC 240
 CTCAAAAA GGTATTGAA ATGCTGAACC TCAGGTTTCA TAGACGTCTT TGTACACTAA 300
 AAATTCTGCA GCAGGAATAT TTTTAAACAT TCGCAGTTTT TTGTAAGCTA TATTTTTTGG 360
 ATATTAAAT TGCTATNTNA AAANTTTTAA ANTNAATTTT GCTAATNNN 409

SEQ ID NO:7220

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08459

SEQUENCE DESCRIPTION:

GATCTCCTGT TCCGTTAGAA ATACGGTTAT GTTGACATTA TGGTTACTGT GCTTGTGGTT 60
 TTGCAATAAA CATGTATTGA AAGCAAA 87

SEQ ID NO:7221

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08460

SEQUENCE DESCRIPTION:

GATCAGATAA AATAACTCCT GACAGAAACT GTNNGGAAAC CAGCTGAATG TTTGACCTGA 60
 TGACTGATGT TGTATGGTTT ATGTTAAATG TATATTCTTT TAATCAATGA ATAAAGCATT 120
 AAAAATGAAA 130

SEQ ID NO:7222

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08461

SEQUENCE DESCRIPTION:

GATCAGAAAC ATTTACAATC TATTCTCTTT GAAGCCTGGC ACCTGGAGGC GTCATCTGTA 60
 TGAGANNNNN GGACTCCACA ACCTTTTATC ATAACCCAGA CATTCTTTTC TATTGATAAT 120
 AACCAATTGC CAATCAGAAA AATTAAAAAT CTACTTATAA CCCAGAAGCA CTACCCCGCA 180
 ACCCTTGCTT GCTTCAAATT GTTCCAACCT TCTGGACCGA ACCAATGTAT AGCTTAAATG 240
 TATTTGATTG N 251

SEQ ID NO:7223

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08462

SEQUENCE DESCRIPTION:

2153480

GATCGGTGCC ATGGCAAGCA CACCCTCAGT CATCATCCTC ATCAGGACAG NCAGCCNNGA 60
ACTCAAGTCT TACGCTTTGG GAGTTCTTTT TCTCNTCCTT CGTTTGTGG GCTTCATCCC 120
NCCACCCCTC ATCTTCGGGG CTGGCATCGA CTCCACCTGC CTGTTCTGGA GCACGNNNTG 180
TGGGNGAGN 189

SEQ ID NO:7224

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08463

SEQUENCE DESCRIPTION:

GATCTGATT GGCCTGGGAC CAGTGTTCAG GTTGGTTTGG TCTTTATTAA AAATCACAAT 60
ATTCCGAAAA CAAAAAACC TAGGAGATAA ATGTAAA 97

SEQ ID NO:7225

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08464

SEQUENCE DESCRIPTION:

GATCTGAAAT NAGAGGTTTT GGTTTACCCT ATCTATGGTA TGTCTTAAAA ATCAACGAAG 60
ATGTCCTTGT CTTTTTTNAA TTTNCCGAGT GTGTTGCAGT TCCACAGCTC ACTGTTAGGT 120
GGCACATACC CCAAACCTGAA AACCTGACCT CGTAGGGCAT GAGTCAAAAG ACAGGTAGGC 180
ACAGGACAGG GCAGTGGTGA CACTACAGCT TTCAGGGTTC CCAGCCTGTC AAGAATGAGC 240
ATGTCCTAGC AGGGN 255

SEQ ID NO:7226

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08465

SEQUENCE DESCRIPTION:

GATCAAATTT GGAAACCTA ACATTGAGAC AATACTATAT TAAAGTATCT CTGGTACCCG 60
AAA 63

SEQ ID NO:7227

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08466

SEQUENCE DESCRIPTION:

GATCCAGCAA TCTCACTGAG TATCTAACCA AAGGAAAATA AATCACTATA CAAA 55

SEQ ID NO:7228

LENGTH:220

02052

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08467

SEQUENCE DESCRIPTION:

GATCCAAGAA CCCTCTCTTG GGGTCTGAAT CATACCCCTT TCGGGTTACA GCCTATCACA 60
GCATTTTAA TCCTATGCAC TTAACACTTC TGTATAGAAA AAGAACATCA CACTAGAATT 120
TTGATGACAA TAGATGACAA TATGATGAAT NTTATTATAT GAAGTGTTAA ACTTATTAGA 180
GCAGATATGG TACTAAAAAT AAAATCCCAC CTNCNCTAAA 220

SEQ ID NO:7229

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08468

SEQUENCE DESCRIPTION:

GATCGCGCCA TTCCACTCCA GCCTACACGA CAGAGTGAGA CTCCATCTCG AAACAAAAAA 60
AAGACTTGAT TTTATTTTC ACTATCTTA GCATAAATTG TTCTAAGAGT GAAA 114

SEQ ID NO:7230

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08469

SEQUENCE DESCRIPTION:

GATCTTATAC AGAGAAGTAT TTTATTAAAA ATTCAAAAGG GAAGACTTTT ATGTGCTCAT 60
TTTGTAATTT TTAATTTTAA ATATCTTTAC ATTGTCTGCC AATTAAAGTG TTTTAACTT 120
GCATTGGAAT GGNCTCTGAA TGTATTNTN TGGTGTNACG TTATCCGTAG ATTTCTAGCA 180
TGANGTAGC CTCACGATGC TGTGCAAAGG ATTTTNAAT ATGAGAGTCA CTGANAGAGT 240
TTAANCATCT GTCCATGTTA AATGCTCTAT GGGN 274

SEQ ID NO:7231

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08470

SEQUENCE DESCRIPTION:

GATCCTTTGT TCACGGCTCT CCTTAATGAC TGAGTGAACA GTTCCTATCT GTATATTTGA 60
CTAAACCTTT TCCTAAGCTA TCTCTCATGG TTCCTATGTT TTTTATCAT AATTAAAAGC 120
AAAACCATCT GGAAG 135

SEQ ID NO:7232

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08471

02053

2153480

SEQUENCE DESCRIPTION:

GATCGAGCGG AAAATTCCAG AACTGTACAA GCCAATATTC AGAGTTGAGA GTCAAAAGAG 60
AACATTGTGC TGTCTGTCAG CATATGTATA TCAGCTACAA AATATATTCA ACTTTGACTT 120
CTTTTGACAA AGGACTTTAG GAAAAAGAGG AACAAAGACA TTATTTGAGA ATTAAATTAT 180
ATATTTTAAN TATGACTGTG ACCTTGACTG ATAATAAAGA TGTAATAAGA NTTGCAAA 238

SEQ ID NO:7233

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08472

SEQUENCE DESCRIPTION:

GATCAGTTCA GCCAAGCAAC TGACAAATCA AAAACCCACT TGTCAGTTCT GTAAAATAAT 60
TTGGTCAGAA A 71

SEQ ID NO:7234

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08473

SEQUENCE DESCRIPTION:

GATCTAGAGG GCTTCGAGTG AAGCCAATCA TGTGAACGA AACTGGGTTT AGTGTAGATG 60
AANTAGAGTG AGGCGTATGC AGTCATAAAA TGAAGGGTGG ACAGGAGATT ACATTTGAAG 120
AAAGGATAAG CACTCAGACT TGGTCTCTTT TAAATTAAAA TATTTCTTTT CTCATGTGCA 180
AATGTATATC AAAGACTTGA ACAGGTATTC TCTTGAAATT TGAGGATTTT TAGTTTTTAA 240
TGCTGNCCTT GCTTANNATT AANNATNGT NGCCTATTGG TCCCAAATT GTNTGGGGNC 300
CCTAANNCTT NCCCCTNGAG GGGTNCATTT TTGAAGGNGG GTTANGN 347

SEQ ID NO:7235

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08474

SEQUENCE DESCRIPTION:

GATCTTGTGT TTGCTATCC TTTTACTGT AAAATGTAAA TATTTTAAGG GATATTTTGA 60
TTCTAAATAT GATAAATAA TTTCTCACCT AAA 93

SEQ ID NO:7236

LENGTH:417

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08475

SEQUENCE DESCRIPTION:

GATCCCAATT CAACTTATCC AGAATAATTC TCTCCATTCT CAAAATTTCA NATGAGGAAC 60
ATNNNNAGAA ACTGTCTCTT GCCAATACCT TTAGTACTGG AATTCTCTCA TCTTCTCAA 120

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CAGTCTTGGC AGCTAGGAAA AAACAGCTGA TTGCAATACA ACTCAAGTAT TTTGGATGAG 180
 CCTTTACGGT AGCTAAAAAC CCATCCAAAA GACTGCTAGC CAGAGCAAAT GTTTCTGGGT 240
 AAAGGTTGAA TTGGTACTTG AGTTTGGCCA GCCATTGANT TACTTCATCT CTCTGGGATG 300
 GNGAACATTC TGATTGAAG GCATTTTCCG CACATTCAC TCCACATCT GTGNTCCCT 360
 AGTGATTGCC TTTTCCACCA GGAANGCCAA TCTCTGGTTT TCCAAAGGCC CTNGGAN 417

SEQ ID NO:7237

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08476

SEQUENCE DESCRIPTION:

GATCAGACCC TCCTGTGGG AGGGTTCTTA GTGGATGAGT TACTGGGAAG AATCAGAGAT 60
 AAAAACCAAC CCAAATCAAA 80

SEQ ID NO:7238

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08477

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAT TTGCGCCTGG 60
 CCAGAAAAAT ACCTTTAAAA AGCTGGGCCT GTTGGTGTAC CTAAAGGATA ATACAGATGT 120
 TCCTCTCAAC TTAGCATGGG GGTGTGTCT CAATAAACCC ATTTTAAAGT TGAAANCGTT 180
 ATGTGGAAAA TGCATTTTAT TATACCTAAC CTACTAGACC TCGTAGTTTA GCCTCCCTTA 240
 CCCTACAGGT GCTCAGAACA CTTTNGNAGG CCCTACAGTT NGGGCAGTCA TCTAACACAA 300
 AACCTATTTT ATAGGTAAAA GTNGTTTGAA TATCTCAAAG NTAATTTATT TGAATGGTTN 360
 CCACTTGAAT NGCGGANTCN ANGTGTTTNN NAACCNGTNT GGTNNANN 409

SEQ ID NO:7239

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08478

SEQUENCE DESCRIPTION:

GATCTCATAG ACTTAGTACA AAAAAAGGTG AAATGTCTTG ATATTTTGT ATATTGATTA 60
 TTGAAATAAC CTTTATGTT GGGCTAAATA CAAATATGTT ATTAAATNA ATTTAACAAC 120
 AAA 123

SEQ ID NO:7240

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08479

SEQUENCE DESCRIPTION:

GATCTGAGGG GGAGAGGGAC GGGTCGGGCC AGCTGGTCAG GAAGGGCCTT GAGGGCCTGC 60
AGCCAAGAGT AGCAGTTTTC TCCCCCGTCT TGTGTTCTT GGTCCCTGGA CCACAGGGCA 120
CACAGGCCTG GACACCATAA GGCTGGTGGG CTTTCAGAAT TGTGTTAGGG NNNNNNGAGT 180
GGCAGGTTCC TGAATCTCGG TCAATATAGT AACCAGCAGG ACAAGAGGTT CAGGAGGAGC 240
CCACATCAGA GGCTTCTAGG GCAAN 265

SEQ ID NO:7241

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08480

SEQUENCE DESCRIPTION:

GATCTCTTGA ATTGCCATCT GTCATCTAAG TCTAAGGCTT TATGCTTAAT GANTTGTGGT 60
GTACTAGCTG GACTAGCTTC AGGAATGTCA GTGTGTTCTA CCATTAAGGT CAGATTGTCT 120
ACTACATCGA GATGGTGGTT GTAGTTACAG CTACTTTTAG AAACATGTCT ATTTTTTAAA 180
GACATAACAC ATGAATGAAG AAATTCAGAA TTTGGAAAAA AGGTCCGTAA TGCCTGACAA 240
AGAAAAATGT TCTCCTGAGG GTCTN 265

SEQ ID NO:7242

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08481

SEQUENCE DESCRIPTION:

GATCCCAGCA CCTTCACATC TTCAGCAACC CAGNNGNTCA AATTTGACCT GGTGTTATTT 60
TAGCCCCAAA TTTATGACAT TACACAATAT TAAAATGTAA ATGTTTCTTC ACCCAAATA 120
CTTCTAGATA TNCTNGNN 138

SEQ ID NO:7243

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08482

SEQUENCE DESCRIPTION:

GATCCTTTGA GAGATGGTTT GACTTTCCCC GAGCAAAGAG CCTGCGTTGA AAAGCGGGGG 60
TGGAATTCAG TCCTCACAGA TAATGAGGGG ACAANACCTA ATTGANCCGN GTATTGCCGG 120
GAAGGAAAAG GCAACGGGCC AAGCCTTTGA CAGGGTGCGA AACTGACTTT NATCATCGTT 180
ATAGTCTTTA AATCCTGGGA AACGAGTTGG CAACCCAAA ATAAAGAAGT GTAATGACGT 240
CTGATGACTT CACCCAAATA CAGACCATTG CAN 273

SEQ ID NO:7244

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08483

SEQUENCE DESCRIPTION:

GATCTATAAA ACAGACAGAG ATAAGTACAA CAGAATATCT CGGGAATGGA CTCAGAAGTA 60
 TGCCATGTGA TGCTACCTTA AAGTCAGAAT AACCTGCATT ATAGCTGGAA TAAACTTTAA 120
 ATTACTGTTA AA 132

SEQ ID NO:7245

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08484

SEQUENCE DESCRIPTION:

GATCCGCCTG CTTCAGCCTC CCAAAGTGCT GGGATTAGAG GCGTGAGCAT TCATGTCCAG 60
 CCAGCACTGT GCTGTTTTTG ACATGCATGT TCTCATTGAN TGCCATGCGG CAGATTCTAG 120
 GATTATNATT ATNCTCACTT TACAGATGAG GGAGTGAGAC TTAAAGGGGT TAGGTAATTT 180
 GCCCACATCC CCCAACTAGC AAATGGTAGA GCCAGGATTG GAATTTGTTC AGGCTCTTAA 240
 CCATTGCACT CTTTCAAAAT GTTAAAAATA ATGTTGTGTC TCATTTTAAA AAATTAATA 300
 AAANCTCTTT GGACCAAGAA A 321

SEQ ID NO:7246

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08485

SEQUENCE DESCRIPTION:

GATCTCCCCA TTTGGAGACA GAGCCATTG GATATTTNCC CCTTNACTT CTCCANNCC 60
 TGAAGCGTTC CTCCCTGGA GGAAGCTTTT GGTTCAGGG CTAAACTN 108

SEQ ID NO:7247

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08486

SEQUENCE DESCRIPTION:

GATCTCAGCT CAAATATTCC TTATGCAGAG ATGCCTTCCC CTGATTCCCT AAAC TAGACT 60
 CGGACCCCTC TGTTCTGCAT CTCTGTGGCA TATCATCTGC CCCTTTTGTA AAAC TTATAA 120
 ACTTGTGGTT ACTTGTA 139

SEQ ID NO:7248

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08487

SEQUENCE DESCRIPTION:

GATCATGTGA GCTCAGGAGT TCGAGACCAG CCTGGGCAAC ACAGCAAGAC CCTGTCTCTA 60
 TTTTATTCTA TGTTTAAAA TTTAAAAATT AAAAAAGAAA AAGAATAACA TTTTATAAGA 120

AAATATTTTA TGAGAGACTT ATAAAAGAGA CATTAGAAT ATGAAGTAAT ATATTNCGTA 180
 TTCCTTATCT CAATAATGCT GTAGGGAAAA ANCAATTGAA ATAAAAGCAG TAAATGAGTG 240
 GAAA 244

SEQ ID NO:7249

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08488

SEQUENCE DESCRIPTION:

GATCTAAGT GCAGTGTATT TTCTAGGCTG GAAAGTGGAA AATNAAATAT ATTATAATCT 60
 TAGGTTACAT AAAGTTTCTA AAGTTTCAAA GAGTCTTGAT ACAAATCAG TTTATATTCT 120
 GAAAATATTT ATAATAAAGT ATTCTAATTT CTAAT 155

SEQ ID NO:7250

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08489

SEQUENCE DESCRIPTION:

GATCGCACTG GAAGATTTTA TAAAGAATT TTTGTGGGTC GGGGGGACAG TAACTTCCT 60
 GGGCCACGTG GGTCCCTCAG GAGTTTTTCA GGCAAA 96

SEQ ID NO:7251

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08490

SEQUENCE DESCRIPTION:

GATCTNATAT TGAACCCAT GCCAAATAGC GTGGCATGAG GCCAGAGAAC AGTGCTTNCC 60
 TTCCCCGCT CCACCCAAAT TGTCCCTTGC TCTNGATATT ATGCCAGTNC CATATTTN 118

SEQ ID NO:7252

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08491

SEQUENCE DESCRIPTION:

GATCTGAAA CTATTTGGNT TTTNTTTTCA ACTTTTCATT TGGATGTTTG GCGTTGCACA 60
 CACACATCCA CCGGTGGAAG AGACGCCCGG TGAACACACC TGTTTGCTTT CTAAGCCAGT 120
 GAGGTTGAGG TGAGAGGTTT GCCAGAGTTT GTNTACCTCT GGGTATCCCT TTGTNTGGGA 180
 TAAAAAAAT CAAACCAGAA GCGGGGATGG AATGGATGCA CCGCAAATAA TGCATTTCCCT 240
 GAGTTTNCCT GTTAAAAAAA ANTTTTTTTA AGTAAGAAAA AAAAAGGTAA TANCATGGCC 300
 AATTTGTTAC ATAAAATGNC TTTCTGTGTA TANNTTATTC CTAAGANATC CTGTTTATAT 360
 AANNNTTCAG TAGNTGGAGA AACTTTCCAT N 391

2153480

SEQ ID NO:7253

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08492

SEQUENCE DESCRIPTION:

```
GATCATGAAT CTCTAATAAA TTAAATCTC TTAAACCAGT AGGTGCTTAA TATTTTAA 60
TTTGATTAAT GCCCATTTAA ATCTCATGGG TTCTATTAAT AATATATATA TATAGGGCCC 120
CAATCCATTG CCATCAAATT GCCCTTGGAC TTTTCCAAGG TATATTATGG GGTTTTATGC 180
AAAATTCCTA GCTACCATGT AACTTTTTTN AACCATTAA CAAGGAGGGG GAACTGTTTC 240
CTACCTTCTT TACATGTTGT GCATTGTTGT GGTCCAGAAA TGCCAAACCT TTTTAAAGAT 300
GGTGAACCTT TGAGTCCTTG GCTTGACTAT ACAGGNCCTG AACTTCATGG CATATCAACT 360
TTGNCATATC TGCAGGTGNG CTGTN 385
```

SEQ ID NO:7254

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08493

SEQUENCE DESCRIPTION:

```
GATCACCATT TNITTCCAGG CTTTCTGCCT CCNAGATGTG GCACCATAGT GCGGTGCCCT 60
GTGGCTTCAC CGCCCTACTT CCACCTCCGC CCAGCCTGTA ATGTTTATAT AAGCAGCCTC 120
AAGGACCAAG AACCATCTGC GAAAGGACAC ACACAGGAAA TTCATAAAG AAATCTGANT 180
GGNTAAACC ATGAAAAAAT GTATGCTTCA TTAGTAATTA AAGAAAGGCA AATAGAGCTG 240
GAAGCNTTTT NCCNTTNGCA AACCATAACA GAAAANNNTA NGACCCAATA TTGGCAAAGA 300
GACTACTGAA AANCCATTCC CATACTTGC GTGTGGGNGT ATACATCGGT GCAGGCTTCC 360
TGGATGACAG TTGGGTGATA TGTGTCATGT GGCCTAANAG CCTCCATGTC ANT 414
```

SEQ ID NO:7255

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08494

SEQUENCE DESCRIPTION:

```
GATCCTGGTT TTGTGATTGA CAATATTTCA TGCTCTGTAG TGAGAGGAGA TTTCCGAAAC 60
TCTGTTGCTA GTTCATTCTG CAGCAAATAA TTATNATGTC TGATGTTGAC TCATTGCAGT 120
TTAAACATTT CTNCTTGTG GCATCTTAGT AGAAATGGAA AATAACCACT CCTGGTCGTC 180
TTTTATAAA TTNCATATT TTTGAAA 207
```

SEQ ID NO:7256

LENGTH:412

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08495

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2153480

SEQUENCE DESCRIPTION:

GATCAAGAGT ACACCTTCCTG GCAGTGATTA AGGAGTGTGT ATCTAACAGA AAAAATATAT 60
 ATACCCTGTG AACCCGAATA TGGAATTCAG ATTGTTTCTG CCCTCAGTAT CATACTTAAA 120
 AAACAAGCAT ACAACAAAC ATAAGGGAAC AAACAGCAAC CATAACAAA ACAACCTTT 180
 AAAGGTGGGT TTTTGCTGTG ATAAATGAAT ACGGTACTCT GAAGGAGAAA AAAGTTTCTC 240
 AAATGAGCTT AAAGTGAAG TGATTTAAAA NTTAGAGAAT ATAATTCTTA ANGCTATTGA 300
 AAGTTTCAAC CAGAAANCCT CANGTGAATT TTGTATGTAA ATGGCATCTT GNNTGTAAAGT 360
 TCTGTGNTTC TTTAGGCAAC CAATTAGCTG GAACCTTGGT TTTGTGTGGT TN 412

SEQ ID NO:7257

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08496

SEQUENCE DESCRIPTION:

GATCTGCAAA TCAAGCTACA TGTATTTGTG TATAAGACCC TGTGTTTCAGG ACTGGGTGAC 60
 TTTTCTAAGA AATATGGGGT TTAGAATGGG GTTGACTGTA TTTNTAAACC TAATTCTGGA 120
 GAGAAGATTG TATTNTAAC AGTTTTTTGG GTTTGGCTTC CTTCTCATAT TTCTTTAGCT 180
 TTGAATTTT ACTAAATAAA TTTCTCCTG ATTAATTTT TTTTCCCA TCTGGGAATT 240
 TGAAATCTCG GTGCTTACTG TNACACCAAT TTGTCCAANG GGTGAAATC ACTTTAATGC 300
 CAGACCATGG TAATTTGCAG CCATTTTCAGG CAGGTGGTGG NCCTTTTNA TACCATCGTT 360
 ACGGGGTCCC NTTAAATATT CTGGGGGGTG ATGTAAATNT AACGGN 406

SEQ ID NO:7258

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08497

SEQUENCE DESCRIPTION:

GATCTCCATT TCCGCCAGCT GCCTGTAGCC ACGTGGCATC CTGCCTGTGG TCTGGGTGAG 60
 ATTTACTGTG ACCAGATGTA GAATAAATGT GTCTCATCCT GCATTTTTTT TCTAAA 116

SEQ ID NO:7259

LENGTH:435

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08498

SEQUENCE DESCRIPTION:

GATCACTTTT TAGTTAGTTT GAAACCTGCT TTTAGTTTAT ATGTAGTATT TCTACATATT 60
 GTTACTTAAA TTGAATAAC AATTTACTTT TNAATTTTNC TTCTTCCTTT TAAAAAAGA 120
 GTATATAATC TGACAATGTT AGTACATCTT TTAGAAGGTC ACTATAAAGT TGCTTTCCCT 180
 ATTTATTTGG AAAGGATTAT TTCCTTATNA TTTTAAAAA TCTTTTAATT NNTGTCTTNT 240
 CAAGTAATTT TATCATTGTA CCAAGCCTAA GGATGAGTGG CAATTTAAAA GNCACAAGGT 300
 GTGCATCTTC TATCTGAAA TACTCCAAAC AGAANTTATT CCAGTTTGTG GATACTTTGA 360
 GTGGCCCAGG GAAAATGTGT ATGGTTTTAG TGTNCTGAAT TGNCAATCCA AAGGGTGCGG 420

02060

AAGGTTNCTG TTAAG

435

SEQ ID NO:7260

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08499

SEQUENCE DESCRIPTION:

GATCAAAAAA GGAATGGATA TACAAAGTGT TTTGTGAAAT AAAAGCTCCC TAAATGGTA 60
AA 62

SEQ ID NO:7261

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08500

SEQUENCE DESCRIPTION:

GATCGACCA CTGCACTCCA GCCTGGGCGA CAGAACGAGA CCCTGTCTCC AAAGGAAAAA 60
CAAAAAAGAA GAATAAATA ATTTGGATGA AAATCATGTT TATTAAATA GTAATGTCAT 120
GAGACTATTA AAGATGTGCC AGAGTTTCAA TGAAAATCAT TAAAGTAGGA CAGCTAAGAA 180
ATTAATATTA ATATCAAANT TATTGATANT CTAAATTAT TGATTATTCC TTAACGCACT 240
CCATTCTCCT TTTACATTTT ATCATGTTTC TTTGAATAT ATGANTTGGC AAAGGCCTTG 300
ATGAAACTGA GTACTAAGAT TTGGTCCAGN GTATGTCAGG ANGNCACCTC AGATTGCCAT 360
TTTAAATAAN GTTGTNCATG ACCAATAAA 389

SEQ ID NO:7262

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08501

SEQUENCE DESCRIPTION:

GATCCCGTGC TACATCTCCT CCCCGGACGA GTGCCTCTGG ATGGACTGGG TCACAGAGAA 60
GAACATCAAC GGGCACCAGG CCAAGTTCTT CGCCTGNATC AAGAGAAGTG ACGGCTCCTG 120
TGCGTGGTAC CGCGGCGCGN CGCCNCCCAA GCAGGAGTTT CTCGACATCG AGGACCCATA 180
AGCAGGCCTC CAACGCCCTT GTGGCCAACT GCAAAAAAAG CCTCCAAGGG TTTCGACTGG 240
TCCAGCTCTG ACATCCCTTC CTGGAAACAG CATGAATAAA ACACTCATCC CATGGGTCCA 300
AA 302

SEQ ID NO:7263

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08502

SEQUENCE DESCRIPTION:

GATCGGAAGG TGGTGAATCT TTCCAGAGCA GCTGAAAATN TCAGCATGGA GACAGTAAGA 60

AAAGAGACGG GGTGTGGATA AGACTCTGCC ACCGTGTCAC ACTAGCATAG GAGGCTGCAC 120
 GTTCATTGTG TGTTGTTTTT TTTTCCTTG CCAACCTCCG TTCTATTTAT GTGCAAGCAG 180
 TTTGGATTCA AGTTCTTGTA TCTGTCTGTT CTGGGACCTG GGGATTGTNA GGGTTCCCTC 240
 ACAGCCAGCA CGACCCCCAG AAAGAGGCGT CCCACAATAA ACACGTCACC TGCTAAA 297

SEQ ID NO:7264

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08503

SEQUENCE DESCRIPTION:

GATCAACAGT TCTATTACAG ATTAGAATGT TTCACTTCAC AGTTCTTTGT AAATCATGTC 60
 AATTTTATN ATAGNTGTCA ATTTGGGAAA ATCTGTATTA AAATTTTAA ATGAAA 116

SEQ ID NO:7265

LENGTH:442

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08504

SEQUENCE DESCRIPTION:

GATCCCTAAT TGGCCAGGCC TGACCCTCTT GGACCTTTCT TCTTTGCCGA CAACCACTGC 60
 CCAGCAGCCT CTGGGACCTC GGGGTCCCAG GGAACCCAGT CCAGCCTCCT GGCTGTTGAC 120
 TTCCCATTCG TCTTGGAGCC ACCAATCAAA GAGATTCAAA GAGATTCCCTG CAGGCCAGAG 180
 GCGGAACACA CCTTTATGGC TGGGGCTCTC CGTGGTGTTT TGGACCCAGC CCCTGGAGAC 240
 ANCATTCACT TTTACTGCTT TGTAGTGACT CGTGCTCTCC AACCTGTCTT CCTGAAAAAC 300
 CAAGGCCNC TTCCCCACC TCTCCATGG GGTGAGACTT GAGCAGAACA GGGGCTTCNC 360
 AAGTTGCCAG AAAGACTGTC TGGGTGAGAA GCATGGCAGA GTTTTCCCA GGACAGGTGT 420
 TGACCAGGGC TTNTGTGTTA TN 442

SEQ ID NO:7266

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08505

SEQUENCE DESCRIPTION:

GATCTTCTGA CATTACTGCT GTCTGAGATT TGTATATGTG TAAATACAAG TTCCTTGATA 60
 CCCTAAAACC TTGGATTAAA CAGAATGTGC ATTGTACATC TTAAACAAA ATGTATATTA 120
 ATTTATTTAA TCTAGTTGTC ACTTTAAA 148

SEQ ID NO:7267

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08506

SEQUENCE DESCRIPTION:

2153480

GATCTTAATT CTGTGTCTTA ACAGCAGGAG ATGAAATTCC CACATGGGAG ATGGCCTCCC 60
 TGTCACAGGA AGGAATANCA TTCTCCCTAT CAATNNGAG AAATTGGAAC TGNGAGAATT 120
 CTGTATAGAC CCTTGTCAA GTAATTNTTC TAGTTTAAAN CNTCCCAAN 169

SEQ ID NO:7268

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08507

SEQUENCE DESCRIPTION:

GATCAAAGAG TCTCATCAAA GCAAGTTCTT CCCTCCCTGG TCCCCTTTGG CTTTCTGAAA 60
 TNATTAATTA AAAGAAAGGC CCTAGGAAA 89

SEQ ID NO:7269

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08508

SEQUENCE DESCRIPTION:

GATCATTGNT TTATTTTGTA GTCCACCTTT CAATCACTTC ATGTATATAA AAAGGGACTT 60
 TGAATGTAAT AGTCTTCATC TTATTTATTG AAAAGATGTA CTAAAGGAAT GACTATTTTT 120
 AAAAAANCT CTAGTATTTA TCAATATGAC TCTAAGGGAA AAATCAAGAA ANTTAGAGGA 180
 AGGTTCAANT TAGTAGTAAG GAATAGGANC NNNCATATNA NCTNN 225

SEQ ID NO:7270

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08509

SEQUENCE DESCRIPTION:

GATCTGTAGT GATGGAGTTC CTTCTGGTGT CAGCCCCACA GGAGGCTCCC AGGCCTCCCT 60
 CACTTCCCAT ACCCAGTCTA GGAGCTCCTT CTGGCTCCCA AGCACCCAGA GCTTTCCTCC 120
 GCCTTTNAGT TTTGGTTCCT CCACTGGAAT GTAGGCTCCT CACGGGCGAT GGCTGTCTTT 180
 TCTTGACTTT GTATCTTCAC TGCCAAGCAA AAAGTCTGCC AAGTGGGAAT NTTAATAAA 240
 TATTCATTGA ATAATGAAA 259

SEQ ID NO:7271

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08510

SEQUENCE DESCRIPTION:

GATCCCAGAA GGAATGCTGA CCCCTCGTCG TATGACCTGT GCATAGTCTC CAGAGCTTCA 60
 AAGGCAACAC AAGCTCGCAA CTCTAAGATT TTNTNAAACC ACAAAAACCC TGGTAGCCA 120
 TCTCATGCTC AGCCTTATCA CTTCCCTCCC TTTAGAACT CTCTCCCTGC TGTATATNAA 180

02063

AGGGAGCAGG TGGAGAGTCA TTNCCCTCG TCCTGCATGT CTCTAACATT AATAGAAGGC 240
 ATGGCTCCTG CTGCAACCGC TGTGAATGCT GCTGAGAACC TCCCTCTATG GGGATGGCTA 300
 TTTNATTTTT GAGANGGAAA AAAAAAGTCA TGTATATATN CACATAANGG CATANAN 357

SEQ ID NO:7272

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08511

SEQUENCE DESCRIPTION:

GATCTAAATN AACAGCATTT TTTTCCTTAG CCTCTGTTTG CCACTCTGGG TATCTCTCCT 60
 ATGGGCAAAG CCATTAGAAA TGCATAAAAC CTCGAGACAT GGTTTTGGC AAAAATCCA 120
 TGACTTTAAA CTAGCTCTTT NACTACTGAC CTTTCACAGA GAAAAAATAT TTCCTTGAA 180
 AAAAATGGG CTTGTNATTT TTNCCCTTGT AGCTTTAAGC AGAGACATAA GTGCCTTGCA 240
 TTACACATAG TAAACTTTCT TTAAT 265

SEQ ID NO:7273

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08512

SEQUENCE DESCRIPTION:

GATCTTCTCT TTTTGGGT TCATTTTGT CTGGGTTTG GTTTCTTCA CAATCTTGAA 60
 CATTTCACAG TAGAACTCAT CTAAAAATGG ATTTGGGGAT GGGGAAACAT GCACAAAATC 120
 TTTTCATAAT TAAAAAGAGC CTTACTTTCT TTACATACCA CAAA 164

SEQ ID NO:7274

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08513

SEQUENCE DESCRIPTION:

GATCCGTTCC GTGGTCGCCC TGCACAACCT CATCAACAAC AAGATTGCCA ACCGGGATGC 60
 AGAGANGAAA GAAGGGCAGG AGAAAGAAGA GAGCAAAAAG GATAGGAAAG AGGACAAGGA 120
 GAAAGATAAA GATAAGGAAA AGAGTGATGT AAAGAAAGAG GAGAAAAAGG AGAAANAGTA 180
 AAACATGTAT TAANTAGCTT TTTAATTG TAANTTAANA TCTTACANAC TNGAANCNAN 240
 NNN 243

SEQ ID NO:7275

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08514

SEQUENCE DESCRIPTION:

GATCACAGGC CTTGAGAGAG NAGAATAAGA CACTCTTGGG GACAGAAAGT TAAAACACCG 60

TGTGTCTCA CTTATATGTG GCGCTAAAA AAGTTGATGT CATAGAAGTA TAAAGTAGAA 120
 CAGAGGATAT GGAAGGTGG GAAGGGTAGG GGAAGGGAA GGATAGGGAG AGGTTTGTTA 180
 AAGGATACAA AATTACCACT CGATAGGAGG AGTAAGTNCT AAGTNCTAGT ATTCTATACC 240
 ACTGTAGGAT GACTATAGTT AACAN 265

SEQ ID NO:7276

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08515

SEQUENCE DESCRIPTION:

GATCGCCCGC ATTCCGGAGC CTTCAAGTAA ACGGCGCGCC CCACGAGACC CCGGCTTCCT 60
 TTCCCAAGCC TTCGGGCGTC TGTGTGCGCT CTGTGGATGC CAGGGCCGAC CAGAGGAGCC 120
 TTTTAAAGN ACATGTTTT ATACAAAATA AGAACAAGGA TTTTAATTTT NTAAGTATT 180
 TATTTATGTA CTTTATTTT ACACAGAAAC ACTGCCTTTT NATTTATATG TACTGTTTTA 240
 TCTGGCCCCA GGTAGAACT N 261

SEQ ID NO:7277

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08516

SEQUENCE DESCRIPTION:

GATCCACATC TAGTGAAATG TCAGTGTCAA AATATTATAG ATTATAGCTA AAATCCAGAT 60
 TAATACTCAT TTGGGGTTTT TAATAGTGGA ACTTCATAGT AATACAAAA GCAGATTGTC 120
 TTCCTGTCTC CGTGTCTCCC ACAGTAGGTA TTGAACTGG TAAANCACT TTTTGATAG 180
 TGTGTGTATA TAAGANANN TAGATACACA CATTCTTTT CCTCAGTCAN CACATTGATT 240
 GACCACTCTG GCAAAGATGN 260

SEQ ID NO:7278

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08517

SEQUENCE DESCRIPTION:

GATCCCACTC CACCCACCT CAACTATTT AACTTCCTAA TTAAATCAGA CTGTTTGAAA 60

SEQ ID NO:7279

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08518

SEQUENCE DESCRIPTION:

GATCTGGAGA CTTAAAAAGA AAACAAAAAC AAATGGCAAG TTCACTTAA GGGTGGTTTG 60
 CCCTTAAGAA GAAAGCTGTT GGGACAAAGA CACCGAGCCA TTATACCCAG AATAAAATAA 120

TACATTTATG CTGGATTTTA TTCAGACCAA ACTAAA

156

SEQ ID NO:7280

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08519

SEQUENCE DESCRIPTION:

GATCATTGTT TAGAATATTT CCGCCACCTT AGAAAGTTTT GTCATGCCTT TTTTTCAGT 60
CAGTCCCCTCC CCTTCACTCA CTGCAAGACC ACCACTGTTG TGACTTTTAG CATCTAAATG 120
TAGCTTTGGA ATCATGTAGT ATGTACTCTC ATGTCTCTGA AATTCATCCA TGTTGTTGCA 180
TAATTCAGTA GTTCACTACT TTTTAATTTT TGATTAGTAT TTCATTGTAT GGGTGTACTG 240
TAATTTGTTT AACCATTCAC CTGCTGTTTA ATCTTTTGAG CTGTATGCAT TTGGCTATTA 300
TGAATAAAGC TGCTTTGAAC ATTCCTAAA 329

SEQ ID NO:7281

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08520

SEQUENCE DESCRIPTION:

GATCAGAGAA GACCCCTGAG ATGAATCAGG GCCCTGCCCT GNCCACCAAC TCTTTTCTAG 60
CAATCATGTC CTGCCCAGGC TGCAGGCTTC ATTAGGCTCC TGCTGTCCTC CATGATGTGA 120
CTAGCACAAG GTGTATATAT GTTTTGTACC TCTGCCGATG GCTGTACATA GTGTATGAAA 180
GTTATTTAAG CCCCATGTTG TACATTTCTG TTCCTAGATT GGATGTGTGT GTTCTAAGAA 240
GTTGTCATAA ATAAACCTG AATGACCAAA 270

SEQ ID NO:7282

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08521

SEQUENCE DESCRIPTION:

GATCCAATTA TTAGAAAAGC ACTCTTAAGA GTGCAATGAA TGTGATTGTA AACTTGAAA 60
GCAGCCTAGA TTTTACTATA TTTGTTATTG TTATCAATGG GGGTTTGCA ACCTTAAAAA 120
TTATTTTNA TGTAAGATA CCTAGGAATT TCTAATAACT GTATTTGTTT TAATAAACTT 180
TGACTTTGCT GTAAA 195

SEQ ID NO:7283

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08522

SEQUENCE DESCRIPTION:

GATCTACCTC AGTTAAACAG TTGGGTGCTA TTACTAAGTC TGTCAAATTA AATTGGAAAA 60

2153480

AGTAACCAAA CGGTGAGATA CAACTCCACA TGAAACTGA AATTGTAATT TCCGTTTATT 120
TAATGATATT TTNATTTATT TGTGCCTTTT ATGTTGAACC CCAATGCATT GAAAAANTTC 180
AGTATGAAAC AGTACATATT TNATTTATAT TACAGGTGGG AGAAAAGTCC AATTGGTCAT 240
GGAATTTGAT AGACTTTTCC CCAGCCAACT GCTACAGTGT ATTATAATCC CGACTGCCCC 300
CCTGTGAAAA GANAAAAAAA ATTGTCCANG GGCAATTTN CCATTNCNA ACCANTANNG 360
NCCANNCTCC TTAAAAANGN GNGNNN 386

SEQ ID NO:7284

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08523

SEQUENCE DESCRIPTION:

GATCAGTTAG TAGGCTTTCG NTGTCTTCTC TTTCAATACA TGTACATCTT TACTGTTTGA 60
AAAGTGTAC AGCTGTCAAA GAATCTTCAT GGACCTGAAG ATAATTTNTT GTGAAGTTGA 120
ATGCAAGTNT ACTGTCATTC ATAGTGTTAA TATCAAANTA CCAGGAATNT TNACTTTTNC 180
NACCTNN 187

SEQ ID NO:7285

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08524

SEQUENCE DESCRIPTION:

GATCTCAGAA ATTGTATCTN AGTTGGTATC AACCAAATGG AGTGACTTAG TGTACATGAA 60
AGCGTAAAGA GGATGTNTGG CATTNNACT TTTGGCTTGT AAAGTACNGG CTN 113

SEQ ID NO:7286

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08525

SEQUENCE DESCRIPTION:

GATCAAAGAG TAAGCCACAC ACGGATAATC AGTTACTAGG GATGGAGGTG TGAGGGTTCA 60
TTATATTATT CATTTTACTG TTGTATATGT TTGAAAATNT CTATAATAAA AAGCTTTAAA 120

SEQ ID NO:7287

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08526

SEQUENCE DESCRIPTION:

GATCATGTGT ATGAATTGTT GGTGCTCTAA AGAACAGCAC AAATAAAATN ATTTTCAAAT 60
TTAAA 65

02067

SEQ ID NO:7288

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08527

SEQUENCE DESCRIPTION:

GATCCGNCCT CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGANCCA CTGCACCCGG 60
 CCCCATTCT CACTTTAGCC TCAGGCAGAG AAGACNGCGC GATGGGGNNN 110

SEQ ID NO:7289

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08528

SEQUENCE DESCRIPTION:

GATCTGCGAC ACTGTGGACT GAACACACTG AAGCTCTGAT GGGAAAACCT GGTGACTGAT 60
 ATAGTTGTTT AGCAATAATT CATAGTCTGT GATGAAGAGT AGTGAATACA ACACACAACC 120
 AGGCAGCCTT CTTGACTATA CTTTGACAT GNTTCTTTA GGAATTCAC CACACATTTA 180
 AACCAGTTAG TGCCTTCTAG AAGAATGGCT TTCCTTTNTN CTACACAAAN TTTGAATTAT 240
 ACAAGNNTCT AAATATAATA CCTTTNAATA AAAAGGNTAA TTNGNCCCT CTGAAA 296

SEQ ID NO:7290

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08529

SEQUENCE DESCRIPTION:

GATCAGGTCC AAGCAAAAACG TCCAGAGTGC TACAAAATGT TCGGTTCTCA GTCCAAAAAG 60
 AAGTGGAAAA GAATCTGAAG TCATGCTTGG ACAATGTAA TGTGTGTCC GTAGACACTG 120
 CCAGAACT ATTCAACCAA GTGATGGAAA AGGAGTTGA AGACGGCATC ATTAAGTGG 180
 GAAGAATTGT AACCATATT GCATTTGANG GTATTCTCAT CAAGAACTT CTACGACAGC 240
 AAATTGCCCC GGATGTGGAT ACCTATANGG NGATTTTATA TTTNTTTCG GAGTTCATAA 300
 TGAATAACAC AGGAGGATGG GNTAAGGCAA AACGGAGGCT GGGTATGTGT GATGGGAAAA 360
 CTTTCTTCAT TGGTNCCTTC N 381

SEQ ID NO:7291

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08530

SEQUENCE DESCRIPTION:

GATCACCCCC GCCGACGGCC CCGGGCCCCG ACGGCCCGGA AGTTCCGCAA A 51

SEQ ID NO:7292

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08531

SEQUENCE DESCRIPTION:

GATCATTCTG TTCTTTCAAG GAGAAATAAG CCTAAAAGAA GAAAAACAAA AAAAATTCTG 60
 TATAAACTG TAATCCTTTG TATTCATGTT TACAGTGCTA TTAATAAT NCAAAATTAT 120
 GTATGTGACT TAGAGTTATA TAATCATAAT TTATGTTTAT TTCAAATATC TAAGTTTATT 180
 GCTTGGATT CTAGTGAGAG CTGTTGAATT TGGTGATGTC AAATGTTTCT AGGGTTTTTT 240
 TAGTTTGTGTT TTATTGAAAA NTTTAATNAT TTATGCTATA GGTGATATTC TCTTGAATA 300
 AACCNATAAT AGAAAAATAGC AGNCACCATA ANCATCTTG TAAATNN 347

SEQ ID NO:7293

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08532

SEQUENCE DESCRIPTION:

GATCCAGAAA CTTTCCCAA GAAGCTTGA CATGGATTGC TGGTAAACAC AAAAAGCTGA 60
 TGGAGGGCAG AGCAGCCGGT TGAATCCCC TGTCAATAT CTAAAGTGG AAAAGCTGA 120
 AA 122

SEQ ID NO:7294

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08533

SEQUENCE DESCRIPTION:

GATCATCTTT CCGTTCCAG AGAAGTGGGC TGGATGTCTC CATCTCTGTC TCAACTTTAC 60
 GTGTACTGAG CTGCACTTC TTAAGTCCC TAACTNAAAG ANCGACTCTG ACAGAACTN 120
 TTTTNCNCA ACAGTTT 138

SEQ ID NO:7295

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08534

SEQUENCE DESCRIPTION:

GATCCTTCGG GNGGAGTGTC GGAGAAGAGA GCTTGCCGAC GATGCCTTCC TGTGCAGAGC 60
 TTGGGCATNT CCTTACGCC AGGGTGAGGA AGACACCAGG ACAATGACAG CATCGGGTGT 120
 TGTCTCATC ACAGCGCCTC AGTTAGAGGA TGTTCTCTT GGTGACCTCA TGTAATTAGC 180
 TCATTCAATA AAGCACTTC TTTATTTAA A 211

SEQ ID NO:7296

LENGTH:152

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08535

SEQUENCE DESCRIPTION:

GATCAACGGT ACTTGTTTTA AAGAAGCTTA TGTGGACTTT GTCTTTTCTC GTTGCCACAA 60
CCTCTTTTAA TGTGCCTATA GTCCACTATA GCATGCATAT CTCAAATTGC AATTCCTTGC 120
AATTCTGGAA TAAACGCTTT ATTTTGGAGA AA 152

SEQ ID NO:7297

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08536

SEQUENCE DESCRIPTION:

GATCTGCTGA CTTATATAAA GCTTTTGTAT TCCTACTAAG CTTTAAGATT TAAAAAATGT 60
TCAATGTTGA AATTTCGTG GGGCTCTATT TTTNCTTTGG CTTTCTGGTG AGAGAGTGAG 120
GAAGCATTCT TTCCTTCACT AAGTTGTNT TTCTTGTCTT CTGGATAGAT TGATTTTAAG 180
AGACTAAGGG AATTTACAAA CTAAAGATTT TAGTCATCTG GTGGAAGG AGACTTTAAG 240
ATTGTTTAGG GCTGGCGGG GTGACTCACA TCTGTAATCC CAGCACTTTG GGAGGCCAAG 300
GCAGGCAGAC CACTTGANGG AGTTCGGGNC CAGCGTGGCC ACCGTGGTGA ANCCCTGTNT 360
CTNCTAAAAA TNCAAAATTT N 381

SEQ ID NO:7298

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08537

SEQUENCE DESCRIPTION:

GATCAACAGC CTCCTCTCTT GGGGACTCTC AAGAGCCTGT TTTCATCTAG AAGTAGTAGT 60
TTGATTCTGG TTTCCCTCCT ACAGTGTGTC CTCCGTCTCT TTGCAGCTCC GTCATTACCA 120
TAGGGGACTT GGTTTtagAC TCTGATGAGG AAGAAAATGG CCAGGGGGAA GGAAAGGTGA 180
GTGGGAAGGA GCAGAAAGCT GGGAAAGGGG ATGGGTAGAA CAAGACTGAG AAATCCACAT 240
GCTTCAGANT TCAGAGGGTT CAGGGAATNG TTTCGGATAG TAGGCTCTCC CTGCTCCCTT 300
CTCTACAGGA ATCTNTGGAA AACTATCAGA AGACAAAGTT TGACACCTTG ATACCCACTC 360
TNTGTGAATA CCCTACCCN 379

SEQ ID NO:7299

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08538

SEQUENCE DESCRIPTION:

GATCATTACA AACAAAACT GTAATTTTNT TATATTTGAT TCAATGGAAT TTACCTAAAA 60
AATAAAGACT AAAAATGTGA AA 82

SEQ ID NO:7300

02070

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08539

SEQUENCE DESCRIPTION:

GATCCCTTTA TTGACAGCCA GTTTGAGGAC ACTGTCCCAG CATCTCTAAT GGAGCCTGAG 60
CCGGTGTGAG GACCAGGATG TCTTTTCCCA GCCCCAAGAG ACCTGTTGCT GCTTTCTTGT 120
AATNATGGGG CTCCCCAGAG TCTGCGTAAC AGTCTCCAC TGGCTGGCTC ACCCACAGGT 180
GCCATGTGCA CACTCCTGGT TTTCAAACAA TTCTCTGGAT TTAAA 225

SEQ ID NO:7301

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08540

SEQUENCE DESCRIPTION:

GATCATGCAT GCCAATCCCT GTTGCCGCAT GGAGCTCCTC AGCCCACTGA CCTCTCCGTG 60
CCTGGTGCAG GCCAGGCCCG CGTCTTCCGC CTGCCCTCTGC TTCCCGTCA TGCATGGTGG 120
TGGTGTCTTCT ACGGTGTCTG GTTCTGTGCC CGTCTCTGAG ACAGTCTCTG TGTGGAATNT 180
GCCTTAAACT GAAGTAAATN TGGTCTTTT AGTAAA 216

SEQ ID NO:7302

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08541

SEQUENCE DESCRIPTION:

GATCAATTCA TGCAAGATAT AATCATATTT TTTAATTAAG AAAATTTTTT TTGTAGAGAT 60
GGGGTTATGC TGTGTTGCCT GGCTGGTCTC AACTCTGGG TCTCAAAGCG GTCCTCCTGC 120
TTTGGCCTCC TAAGGTGCTG GGATTATAGG CATGAGCCAC TGTGCCAGGC CTGAGGATAT 180
TATCATTATA AATATATATG TACCCACAC TGGATGACCC AGATATAAAG CAAATATTAT 240
TAGATTTAAA GGGAGAAATA GACTCTAATA CAATAGTAGT TGAGGACTTC ACTCTACTCT 300
CAGCATTGGA CAGATTTTCT AGACATAAAA CCAATAAATA TTGGATTAA ATTGCACTTT 360
ACACCAAATG GTCN 374

SEQ ID NO:7303

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08542

SEQUENCE DESCRIPTION:

GATCCCATTT CTATGAAATG TCCAGGGCAG GCCCAGCCAC AGAGACAGGG AGTAACGTGG 60
TGGTTTATTA TAAATTTTTC ATGAAAATAA AATATACAGT ACTCTCGTGN AAA 113

SEQ ID NO:7304

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08543

SEQUENCE DESCRIPTION:

GATCTGCACA GCCTCTAGAG GCCTCCCAGC AAATGCGGGG AGCCATGCCC CCAGGGTCTA 60
CACACTCTCG TTCATCAACA TCACAACTGG AATTCGGGAT TTGTGAAGTT TAGAGCTGNA 120
CAGACTGTTA CAGATTATGA GTCAACACGT ATATTTTCTC TTTCAAAATA ATAATATTTC 180
GTTTTTGACT TTTTACTAAG TGAATATTAT TTTTAAATC TGCCTATATA TTGGAACCTC 240
TATTTTATAA TAATAATGAT AATAAATCAG TACCCAGAAG TATAAA 286

SEQ ID NO:7305

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08544

SEQUENCE DESCRIPTION:

GATCTAAATN ATGTACTTGT TAGTGATTTC ATTCATATTG ATTGTAAAGG ATTATTTTTC 60
ACTCAGTACT GATGTCCTTG GAAATCTTAC CTGGAAACAT GTTGCAAAA AACAAA 116

SEQ ID NO:7306

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08545

SEQUENCE DESCRIPTION:

GATCCCAAGT CTACCCTGGA AATNCCCAGG CACAGCATGC CTGGAGGTGT GAGCCGCCTC 60
TTAGAAGCTT TATAATCCCG GATAATNCTG CTGTAATTGG CATTGTTTTT CCATTACAAT 120
CCTTTCATTA CCTGAAA 137

SEQ ID NO:7307

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08546

SEQUENCE DESCRIPTION:

GATCCCAGCT TGGTGGGAAA GTGCAGAAGA ATTGCAAAAC TGACATCCCA TNTNACAGCA 60
ATAGTGACCT TTATTTAAAT TGTTGTGTTA TAGTTTATGC TTCTTAAATC ATTTTCAAC 120
NTAAACAGCC AATTTCTAAG CAGACAGGAA AACTAAATAA TAAGTTNATT NATATAACAA 180
AGATGCAGGT TCCTGCTCAT TCCAGTAATG TCTTTGAAAG CANNCTNAT ATTTNTTTTC 240
TAGATTATCC CTGTGAATAA TTGAGANCTT TTTGGAGTCA AGNATGAATA AAGGTGTGGC 300
AAGGNTATAA ACANNAN 317

SEQ ID NO:7308

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08547

SEQUENCE DESCRIPTION:

GATCTGTCAG AAAAGACATA TTTTGAGAT AAAGGAGTTT CTAAATAATG AATTATTGTT 60
TAGTACCAGC TTTTGAATC CTTACATTTT AAGGAACTTG AATAATTTAA ATATTAGATA 120
ATGTAACCC TCATAAAAC AGTGTCTAGA CAAGGGCCAA TATTGCATTG AGATTGGATG 180
AACATTTTAT TTTGCATATA ATTGTTGTCT ATAAACAAA ATACTAATAA TAATGGCTAC 240
CNGTTAGNCA NTTTAGNNCN TGTCTTACTA TTTACCNNTG TGGNAAAACA TTGCATGNTT 300
TAATNTTTTT CTAAATAAAT ATTNTNCCAT TANCNNN 337

SEQ ID NO:7309

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08548

SEQUENCE DESCRIPTION:

GATCCCACCA ATCCTCGTTC CCCCTAAACA TGCTAACAAA AATCCCTTAT TGTGGGTATT 60
AAAATAATAA CAGTTACACT GTATGCATAT TTATGTGCTC CTTTGTCTG GTTTNCTTT 120
TCATCATGTA TAAGCTGAAT TCAGCATTAG TTTCTCACAT CTTCCCCCAG GTATCCCCAA 180
CAGAATTTTT ATGTCCAGC TTGTATTAAG TAGAAGTGAA ATATTAAGGA AAATAAGGAA 240
CTTGTGCAAC TTTTNNATG CATTGTTCTC AACCATTTAA TTTATTGAAA GGAGATGCTG 300
CAACAGTTCT TGATTAGCA GCAGTTATTC TCTGTTTAC ATAGTTATGG TTTNTGTTG 360
TTGGTTTTTG CTCTGGTACT GGGAACCGN 389

SEQ ID NO:7310

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08549

SEQUENCE DESCRIPTION:

GATCCAGGTC TTCTGATTCT TATTCCAGTG TCCTTTCTAG CATACCATGT TGCTCTAAA 60
GATTGCAGCT CCTTATTTAC TAGAAAATTG TTCCTGCCCC ATCTACATCT CCACCTCACC 120
CCATCTTTTC TTAAGCACTA TGTGTTGTGT TTTATCAGTA TTATATTCAT TGTCTTTGGA 180
ATACATGTTT TGTGTTGTGT TTGGAAAAAA AATCTCTTTT ACCAGCTTGC ACTCGGACCA 240
ACTTGAAAAA AAAAANGCTT AAATGTTTNN GCTATGTNCA GTTTAAAAAT GTGAAGTTTG 300
TNGCTTTANC TTTTGTAGG AAAATCTANT ANCACTGGCT TAAGTGCTGA CTTGAAATGC 360
TATCCAN 367

SEQ ID NO:7311

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08550

SEQUENCE DESCRIPTION:

GATCCAGCGA ACCACTGCAC TCTAGCTGGG GAGACAGAGC AAGACTCCGT CTCAAA 56

SEQ ID NO:7312

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08551

SEQUENCE DESCRIPTION:

GATCTCTTCC CTTAGGAAAT ATCAACATCT TTATGTACAT GTCAGAGTCA TGGTGTGATG 60
ACGTACTTTG AAGCATGGAG TCAGTTTCA AA 92

SEQ ID NO:7313

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08552

SEQUENCE DESCRIPTION:

GATCCACTTA TGAAGTGAAC ATTCTCCATG AACAGGTGGT TGGATTGGTA TCTGTCATTG 60
TAGGGATAGA TAATAAGCTC TTCTTATTCA TGTGTAAGGG AGGTCCATAG AATTAGGTG 120
GTCTGTCAAC TATTCTACTT ATGAGAGAAT TGGTCTGTAC ATTGACTGAT TCACTTTTTC 180
ATAAAGTGAG CATTTATTGA GCATTTTNC ATGTGCCAGA GCCTGTACTG GAGGCCCCCA 240
TTGTGCACAC ATGGAGAGAA CATGAGTCTC TCTTAATTTT TATCTGGTTG CTAAAGAATT 300
ATTTACCAAT AAAATTATAT GATGTGAAA AAAAAAAAAA AATTGCGGGC TTGNANGNTN 360
GGGGTCAN 368

SEQ ID NO:7314

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08553

SEQUENCE DESCRIPTION:

GATCACACCA CTGTACTCCA GCCTGGATGA CAGAGTGGAG ACTCTGTTTC AAAAAACAG 60
AAAAGAAAAT ATAGTTTGAT TCTTCATTTT TTAAATTTG CAAATCTCAG GATAAAGTTT 120
GCTAAGTAAA TTAGTAATGT ACTATAGATA TAACTGTACA AAANTTGTTC AACCTAAAAC 180
AATCTGTAAT TGCTTATTGT TTTATTGTAT ACTCTTTGTC TTTTAAGAC CCCTAATAGC 240
CTTTTGTAAC TTGATGGCTT AAAATTCCTN ATTAATNCTG CCATTTCAAN TTCCAAA 297

SEQ ID NO:7315

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08554

SEQUENCE DESCRIPTION:

GATCTTTGAA TGAGCTTTT AAGGAAGAAA TATTATATAT TGTTTGTTAA AGTTTATTGA 60
AATAAAGAAT CATTTAAATC TTCAAA 86

SEQ ID NO:7316

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08555

SEQUENCE DESCRIPTION:

GATCCAAATT GTGAAGCCGT TGGTCAGGTG CCTGGGCTACA CACAAAATGG TGGAGGCTTA 60
GCCTAAACAG TTTCTTCATT TCACATTAAA ATCCTAATTN NTGGCTCCTC TCAAAATGAG 120
TTCTAGAAGC ACNGGNTGTA GATTCCCATG TGGACACAGC CTTCAGGAGG TGAGCAGCAG 180
CTCCCTGCAG CCAGCTGGAG CCTGCCAGTT TTCCCTAGTG CCCAGCACTC CTGAGCTTCT 240
GCCCTCCGAG GGATTCCCGA AGTTTTTCT AATGGGNTTA GTGGNGNCNC CTTTGGGGTT 300
GCTTNGGTTT CNTTNGTTA NGNGCCCTTG NTTTTAAAT AAANCNGGGC CATTNN 356

SEQ ID NO:7317

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08556

SEQUENCE DESCRIPTION:

GATCTGTGGG ACTGTCTGGG CCTGTACTC ATCCTGCTAT CAATTTCTTA TTAATTAATC 60
TTGATGATTC TNATTAATTA ATCACATTG CAGGAAATTC AGATGAGGCA AGAAAATTN 120
ATTGGCCTGG GNNNGACTGA AAGCATTCCA AATTAGGCTT AGACTGTGCA AAGGGCTTAG 180
CTAAGTTATC GAGCTTAAAA CCCGTCAATT AANCAAACAT TATTGANCA GTTACTGCAT 240
GCCACGCACT GTGTTGGGCT TAGTAATAAA ANNNAGNAAA GGTAAGNGCT TGTNCTNGCC 300
TAAATTAAG GGTCCCCGGG GGTTTTTTCT NGAGGGGGCN NCTGCCCN 349

SEQ ID NO:7318

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08557

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAAGAGT TCAAGACCAG CCTGGCCAAC ATGGTGAAAC GCTGTCTCTG 60
CTAAAANTAC AAAANTTAGC TGGGCATGGT GGTGGGCACC TGTAATCCCA GCTACTCGGG 120
AGGCTGAGGC AGGAGANTCG CTTGATTCCA GGAGGCAGAG GTTGCACTGA GCCAAGACTG 180
CACTGTTGCA CTCCAACCTG GGCAACAAGA GCAAACTCC GTCTCAAAAA AAAANGTGT 240
TAATTATTCT AAAAAAATT CAGCCAGGTT ATTCCAAATT NTAATTGAAA NCNGGGGCCC 300
CAGGTTAANC GGGGCCTTAC CCTTCCCTTN GCNCTTTGGA NTTTNNCCAT N 351

SEQ ID NO:7319

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08558

SEQUENCE DESCRIPTION:

GATCAGCAGT GTTGACCATT TATGCTGCAT AGCTGGTATT ATAGCCTTAT TAGTTGTGTG 60
 GTTGACCCTT GGGGTATACA AATGTCAGTC TGAGTGGTGN CTTACTCCTT TGTTTATAAG 120
 TGAATGATTG TGCATGTTTT GTATGTCATA GTATGTCGTC ACATAAAAGG GAGGGAGCGA 180
 AAAACCATTA CATTAGATA ATATTGGACC AAACACTTA CTTGCTCTAA ACAGTTACTT 240
 GTACCCCTTA ACCTGTCTTC AAAAGTTGCA TATAGTTACA GTAGTGTATA AATTAAATAT 300
 TGTGGAAC CANNAANN NNNNANNNN NNN 333

SEQ ID NO:7320

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08559

SEQUENCE DESCRIPTION:

GATCAGCTGA AGGTTTCATGG GTTTTAAGTG CTTGTGGCTC ACTGAAGCTT AAGTGAGGAT 60
 TTCCTTGCAA TGAGTAGAAT TTCCCTTCTC TCCCTTGTC CAGGTNTAAA ACCTCACAGT 120
 TGATAATGTA CCATTGGGGN CCGTTTAAAC TGGGCCTAGG NACCCCTCA NGAATAACCT 180
 GNAAGGGCCA AA 192

SEQ ID NO:7321

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08560

SEQUENCE DESCRIPTION:

GATCGTGCCA TTCCACTCCA GCTTGACAA CAAGAGCAA ACTCCGTTA TAAA 55

SEQ ID NO:7322

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08561

SEQUENCE DESCRIPTION:

GATCAGACCC CCACAATATG TCTCAACCTC TGTGAAGGG CTAGTGATGT TAAAAAAC 60
 CTGTTATTTC CAATCAA 78

SEQ ID NO:7323

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08563

SEQUENCE DESCRIPTION:

GATCTGGTAT TTCCTGGACT AAATTCCTT TGGGAAGAC GAAGGGATAN TGCAGTTCCA 60
 AAAGAGAAGG ACTCTCCAG AGTCATCTAC CTGAGTCCCA AAGCTCCCTG TCCTGAAAGC 120
 CACAGACAAT ATGGTCCCA ATAAGTACT GCACCTTCTG TGCCTCAGCC GTTCTTGACA 180

TCAAGAATCT TCTGTTCCAC ATCCACACAG CCAATACAAT TAGTCAAACC ACTGTTATTA 240
 ACAGATGTAG CAACATGAGA AACGCTTATG TTACAGGTTA CATGAGAGCA ATCATGTAAG 300
 TCTATATGAC TTCAGAAATG TTAATAATAGA CTAACCTCTA ACAACAAATT AAAAGTGATT 360
 GTTCAAGGT GGAAA 375

SEQ ID NO:7324

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08564

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCCTC CCAAAGTGCT GCGATTACAG GCATGAGCCA CCGCGCCTGG 60
 CCGCTTTCGA TATTTTCTAA ACTTTAATTC AAAAGCACTT TGTGCTGTGT TCTATATAAA 120
 AAACATAATA AAAATTGAAA TGAAAGAATA ATTGTATTA TAAAAGTACT AGCTTACTTT 180
 TGTATGGATT CAGAAATATAC TAAATTAAC TTTTAAACA CAACTTTTAA AAAATGTATC 240
 AAAATAATAA ACGTGTCTG ATATTTTAA A 271

SEQ ID NO:7325

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08565

SEQUENCE DESCRIPTION:

GATCCCCTGA GTTCAAGAGT TTGAGACCAG CCTAGGCAAC CTTGTCTCTA CAGAAAAATA 60
 AATAAATAA TAAATAACA AACAAACAAA CAAAAATTA AA 102

SEQ ID NO:7326

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08566

SEQUENCE DESCRIPTION:

GATCATGAGG TCAGGAGACC GAGCACCATC CTGGCTGACA CGGTGAGACC NCGTCTNTAC 60
 TAAAAATACA AAAGCAAAAA TTAAGTGGGT GTGGTGGCGG GTGCCTGCAG TCCCAGCTAC 120
 TNGGGAGGCT GAGGCAGGAG AATGGCATGA ACCTGGGAGG CGGAN TTGCA TTGAGCTGAG 180
 ATGGCACCAC TGCACTCCAG CCTGAGCGAN NNNNN 216

SEQ ID NO:7327

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08567

SEQUENCE DESCRIPTION:

GATCTGCTCT CTGTTGAGAG TTGTAATCA TTGGTTTGAA ATGTGATGAA ACCACTCAAG 60
 CCAATGAAGG TGGGTGTGTA GGTGGGGAGT ACTTTGCCAT AATATTTTAA AACATTACCT 120

GGTTAGAGTT CTAAGTGGTA CTTATTTTGT TTTGGTTAGG GGAAAGCCTG AATAAA 176

SEQ ID NO:7328

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08568

SEQUENCE DESCRIPTION:

GATCTCTGGC TGTGTGATTT TTTTATATT GTATTTTAA AATNTGTAA ACAGTGCCT 60
GTGAGCACCA AGTACCACTA GATGAATAAA ACGTATTATA TCTAAA 106

SEQ ID NO:7329

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08569

SEQUENCE DESCRIPTION:

GATCCGGCAG GCAGAGAGGA AAAAGGGAAC TTGTACCAAG CACAAACAGG NTCTAGGCAT 60
AGTGCTGTGT ACTTAGGTTT TTCCTGTGCT TCAGTCTTTC CAATAAATCC AGGGGTTAGG 120
TTTAAATCTN NCTATTTNAT AGTTACAGAC CATTTTAAAT GGACAAGCAG CCCATTTAAA 180
GATAAAAGTA CTTAGATGGA CTAGCAGCTT CTCTACCAA TTATTCACC ACACAAAGNT 240
AACATCATTG TGAAATTTGG TTTAGTTAAC ATGCATTCCC TGGCCTGCCT CACACCGGAC 300
CTNTACCCGG TACCATGCAA ATGCACATCT GCTGCTACAC TTGTGGGATG CTGGTTTAGG 360
TAATTNTTTT TTATAATNN 379

SEQ ID NO:7330

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08570

SEQUENCE DESCRIPTION:

GATCCAGCA GAATACAAA ATCCTATTTT TTTGACTGA GTATTTGTAG ATGCTTAATG 60
ACTGAAATNA ATTTGGAGGC ACTGATGAAA GTAATTTTTC NAAAGTTCTC AGGTACTGTT 120
CAATTATTTA ATGTTAAGTT TAGTATCAAG ATACAGTTGT TTNAAAAATG CCAAATGCT 180
GTTTATNATA CAGAAATTTT NATTACATTT GCAATATCTT TGTATATAGT GATTTTNTNC 240
TTGATAATAA ATGGAAAANT TCTAAACCAA A 271

SEQ ID NO:7331

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08571

SEQUENCE DESCRIPTION:

GATCGACCTG CCTCTGCTTC CCAAAGTGCT GGGATTACAG GCGTGAACCTA CCGCGCCTGG 60
CCCTCAGATA TTTTAAATT TGAAAATTAA GAGTATATAT TAATATCAAG TNGCAGAAAC 120

AGAATGAAGT GTTATAAAGG CGTTAAGTAG TAGGGNGGCA TAAAACTTAA ATCTTTAAGC 180
 TAGAAATAGC TTGAGGAATT ATCTGATGCA GTACTCTGTT GTAATATAAC AAAAATGGAA 240
 TCACAGTTTT ACAAATCAGG CAGCTGCAGC TCAGNGAGGT TAAATTTCCA CAGACCTGTT 300
 TATGCAGCGC GGTAANTGAG GAAGTAGACC TAAAAATTGG GGCCTCTGCT ACTCTGGGCC 360
 ATTACCTCAG CCTCGCTGGC AN 382

SEQ ID NO:7332

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08572

SEQUENCE DESCRIPTION:

GATCTCAGC GAATCCTTCA ACTGCTTTCT ACCAAGCGTT CCATTGAAC ACGTTAAAGG 60
 AATCAAAGAG CCTCTGGGAT AGGGGGGAAA NCACATGGTA TCTAGCATGG GACAAAGCAG 120
 CAAAATAAAC CAAAAGGACA ATCTCTATTT TATATAGAAA ATAAACATAC TTTTCTGCAT 180
 CCTGTGTACT TTAAGTATAT CTATATTTTT GAAGGGTTCA TACTGTGTTG AATTTTCTT 240
 ATGAAATAGT CACTTCCCCA GTGTATTTTA ATGCAAATGC ATATTCTATA AAATAACCTA 300
 TATTTTAATT TTAAA 315

SEQ ID NO:7333

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08573

SEQUENCE DESCRIPTION:

GATCTTTAAT ATCTGATATA TTCCTGGTAC TCGTACTGAT AAGGGATTAT TGGAAAGTCAG 60
 TCACAGAATT TGGAAATAAA TTCTAGTCTN TCCTTAGCTN NNNN 104

SEQ ID NO:7334

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08574

SEQUENCE DESCRIPTION:

GATCTACCTG AGGCTCAGTC CTCATCTGTA AAATGCTGAT AAAAGGACCT ACCACCTAGC 60
 GTTGCTGTGA GGTGTCAGTG AAATAAATG TAAATGCTT AGCACAGTGA ACTTTAATAA 120
 ATGGTAGTTG TGGTTGCAAA 140

SEQ ID NO:7335

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08575

SEQUENCE DESCRIPTION:

GATCTAAAGT CTA AAAAACA AATCCTTAGG TTAAGAAGAA AATAATGCAA TAAATAAAAT 60

GTTATAAATA AATGACATAT TGCNACTTTT AAA

93

SEQ ID NO:7336

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08576

SEQUENCE DESCRIPTION:

GATCATACCC ATGAAACCCA CTGTTTAGAT TTAAAAAGT TCAATGTTTT TCTGTATTN 60
ATCTCTTCAT TTAAAAATAA AGTTTTGCAC ATGAAA 96

SEQ ID NO:7337

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08577

SEQUENCE DESCRIPTION:

GATCTAAAAG CAGATGCTGT AGCTGCCTAC TTAAACCCAT TTTCAACCT GTTGTTTTT 60
TAAAGGGCTT CACTAAGGGT NNNNNATGTA CCATTGTAGG GGGCAATTTT AAGTCAGCTA 120
AGGCAATAAC CTTATGCATG AACATTTCCC AGACTTTCAT GAAGCTGTG AGGTCCTAGG 180
CAATTAATGC GGCAGTTGTG ATAAATAAAA ACATCTCACC TAAA 224

SEQ ID NO:7338

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08578

SEQUENCE DESCRIPTION:

GATCNATATT TAGTGACTGC AACATGTTTA TACCACTGAT TCAAATTCCA NNNNTGATGA 60
AGTTATACAA ATAATGCATA TATTGATAAC TTTTATTGCA AAAATGTAAA TTAAAACTT 120
GTATAATGTT CTTGTGCTTT TAAAAATAAA ATATATGTGT ATATTTAAAA AGAAA 175

SEQ ID NO:7339

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08579

SEQUENCE DESCRIPTION:

GATCTGAGGA TGTTTATAAA TACTGTAAGT ATTGTAATGT TATGAATGCA ANNNTATTTG 60
AAAGCTGTTT ATNATNATAT CATTCCTGAT AATGCTATGT GAGTGTTTTT AATAAAATTN 120
ATATTTATTT AATGCACTCT AAA 143

SEQ ID NO:7340

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08580

SEQUENCE DESCRIPTION:

GATCACTTGA TTTTAAAGAA ATNAAAAATT GCACTAGGTA GAAATAGTGT ACCAGGCAAT 60
AGTCCAGCTT TAGTTTNTG TCATTTTNG TCTCTATTTA AAGNNN 106

SEQ ID NO:7341

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08581

SEQUENCE DESCRIPTION:

GATCTCAAAG CAAATCTGTA TTTTAATCTC TCAGGTGTTT ACTAGTATTA CCAGTGACTA 60
GTGGAAATAA TAAAAGGAAA TCTTGTTTCA AAA 93

SEQ ID NO:7342

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08582

SEQUENCE DESCRIPTION:

GATCTTCGCT CCAGCTTTCT GCATCTGAGC TGGAAAAAGA GCAAAAACGG GTAAAAATTG 60
AATCCAAATA TTGTCGNATG TATGCCTAAT TTAGAATGAA ATCTTGGGGT GGCAGACTCT 120
GGAGTTCTCT GTGAGGTGTG GCATTCTTTT NTCTAAATCA CTTATTGGCC AATGTATGTG 180
TCACTTTGTT AAA 193

SEQ ID NO:7343

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08583

SEQUENCE DESCRIPTION:

GATCTATAAT AAGAGCTCAA TAACTNNGTC AAGGAAAGCT CTAATATATG CAGTGATGGT 60
TTATGAAAGG GTGTGGCAAT NTNAAATNTA TATTGTGTGT GATGTTCAAA TAAAGTGGTA 120
TCTACATNCA TGTGAAA 137

SEQ ID NO:7344

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08584

SEQUENCE DESCRIPTION:

GATCCCTGGT ATNGTCCGAA TTGTAAAGAA CATCAGCAAG CCACAAAGAA ATTGGATTTA 60
TGGTCCCTGC CTCCAGTACT TGTAATACAT CTNAAGCNAT TTTNTTACAG TCGATACATG 120
AGAGACAAGT TGGANACCTT AGTTGATTTT CCTATCAATG ACTTGGATAT GTCGGAATTC 180

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TTAATTAATC CAAATGCAGG TCCTTGCCGC TATAATCTGA TTGCTGTTTC CAACCACTAT 240
GGAGGGATGG GAGGAGGACA CTATACTGCT TTTGCAAAAN ATAACGATGA TGGAAANTGG 300
TACTATTTTG ATGACAGTNG TGTCTCCACT GCATCTGANG ACCAAATTGT GTCCAAAGCA 360
GCATNTGTAC TCTTCTACCA GAGACAAGN 389

SEQ ID NO:7345

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08585

SEQUENCE DESCRIPTION:

GATCTGTTAC CATCAGGTCA ATTCCTAGTA TGCATAAATT TTTTAACCCT TTAAAAAGAG 60
ACCTATGTTG AAAACCCCTG AAAATTCCT GAAGAAAAAT CATTACTCTT NTTCTCNGTA 120
AATCATATCA TCTGAAATAT TACAAATTC AAATTCTAG GTGCTATATT AATTCAATAT 180
TACAATAACT CTTACCTAAT TATTCTTACA AGTTTAAAGT TGTGGTAGTT TAGTGATTTT 240
TTAAAAAGAT GTGTGAAATG TTCTCTGCAA AATAATTCAG GCCACTGTCT CCTTTTATAT 300
ATNATNATNN TNGTNTGTGA TGANGACCAG TGAATTACGA TATTAAAGT GAGAGACCTT 360
AATTNTN 367

SEQ ID NO:7346

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08586

SEQUENCE DESCRIPTION:

GATCCCGTCT ATAATCNAAC AAA

23

SEQ ID NO:7347

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08587

SEQUENCE DESCRIPTION:

GATCGGCTCC CTGTCGCGCC CGAGGAGGGC TGGACCTTTC GTGTCGNACC CTTGGGNGCG 60
NNGAGACTGG GTGGGAGGG TGTGAATAA AAGGGAAAAT AAA 103

SEQ ID NO:7348

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08588

SEQUENCE DESCRIPTION:

GATCTGGTGG CTGAAAAAC AAGAGTGACA TTAACAAATC AAAAAAATC AGTTAGGGCT 60
GTGGTTTTAC ATCCAAGACA TTACACATTT GCATCTGGTT CTCCAGATAA CATAAAGCAG 120
TGGANATTCC CTGATGGANG TTTCATACAA AATCTTTCCG GTCATAATGC TATTATTAAC 180

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ACATTGACGG TAAATNCTGA TGGAGTGCTT GTATCTGGAG ACAGAAGAAA CTCATCCAGT 240
 CAGCTGGAAA CCAGAAATTA TCAAGNGAAA GNGATTTTAA TGAATGTGGA ATTTTTCCTC 300
 TCTCTTTTTT TTTCTTTTAA ATTAAANAA AAAAGGCTTG GNGTTCATGG GGGNTTCCC 360
 GNCCTTN 367

SEQ ID NO:7349

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08589

SEQUENCE DESCRIPTION:

GATCCCGCCT NTTTCTTACA AA

22

SEQ ID NO:7350

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08591

SEQUENCE DESCRIPTION:

GATCTTTTAA AAATTCATCC CATATCCAGA AAGTACCAGT TATAAAGATT GCTGACCAAG 60
 CAAAGTTTGG CATCAAAGTG TCACCTCATT GCTCTGACCA AAGACTGACT GTTGTGGTTT 120
 TAACTCCTCT CTGTAAAGCA TTTTGCATTT TCCCAAGCT CCTTTCTGAA AGAAGAACCA 180
 GTGCAGAGCG GCCTTACTT TCAATTTCTA CTGCTGAATA GACTACTTAG AGAAATGTG 240
 AGTTTCAGTG TGAACAGAAT GGATTAGGAT GACGAGTTTG ATGGGCATTT TCAGTACTGT 300
 ATCTAAGAAA AAAAAATTNG CACAGCTAGG AGCCTCTGAC CATTGTCTGG GTGTTTACG 360
 TGGGTCCTGT TCATCAAA 378

SEQ ID NO:7351

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08592

SEQUENCE DESCRIPTION:

GATCAAAGTC AAAAATAGCA ATGNCTCCCT ATCCCTCACA CATCCAGACA TCATGAATTT 60
 TACATGGTAC TCTTGTGAG TTCTATAGAG CCTTCTGATG TCTCTAAAGC ACTACCGNTT 120
 CTTTGGAGTT GTCACATCAG ATAAGACATA TCTNTAATTC CANCCATAAN TCCAGTTCTA 180
 CTATGGCTGA GTTCTGGTCA AAGAAAGAAN GTTTAGAAGC NNNNCACAA AGGGTTGGGA 240
 GCTGATGAAA CTCACAAATG ATGGTAGGAA GAAGCTCTCG ACAATACCCG TTGGCAAGGA 300
 GTCTGCCTCC ATGCTGCAGT GTTCGAGTGG ATTGTAGGTG CAAGATGGGA AAGGNTTGTA 360
 GGGTGCAAGC TGTCCCAAN 379

SEQ ID NO:7352

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08593

SEQUENCE DESCRIPTION:

GATCTGCTTT AGTGAGAGGA CAATTTCTGA TTGATTGTTT TCTCTTCAGG CCATCTCACC 60
 TCTTCATTCT CTGTGNACAT TTGAAGCAGT TGATATAATG GGTTCATANN NNTAAAAGN 119

SEQ ID NO:7353

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08594

SEQUENCE DESCRIPTION:

GATCAGCTAT TTTCAACATA ACTGAAGGCA TATGCTGGCC CATAAACACC CTGTAGGTTT 60
 TTGATATTTA TAATAAAATT GGTGTTTTGT AAA 93

SEQ ID NO:7354

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08595

SEQUENCE DESCRIPTION:

GATCTCTGTA GACTTGCCTC TTCTGGACAT GACATAGAGA AAGGAGTCAT AAATTCTCCA 60
 AGGTGTCTGT TTCTTCTTTA ATGTCATTCC CTGTTTCTCC TCACATTCCC TCCCCATTTC 120
 CTGGGCCCAG TCTCACACTG GTCCTTGCTT ACCCTAAATG CTATTAATTC CATCACTCTG 180
 AGTATGGTGT TTGCTGTCCG CTGAATGCCA AGAGCTTCAA GAGTGTGTGT AAATAAAGCC 240
 ACACCTTTAT TTTTGTATTA TTCTGAACCA TGGCTAATAA ATTGTTTCAC CAAGAAA 297

SEQ ID NO:7355

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08596

SEQUENCE DESCRIPTION:

GATCTCCGAT GTGATGAATA CGAATAAAAG GCCCTTAATG GCAAA 45

SEQ ID NO:7356

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08597

SEQUENCE DESCRIPTION:

GATCTGTTCA TGCTTTTGTG TTCGTCACTG CGGCGGGGCC CTTTGATGTC TTCATCTGTA 60
 TGGGGTGGAA AAATACCGG GAATCCCCCT NNNAGTTCTT TGAAAAAGTT CCATGACTCG 120
 AATATCTGAA ATNAAGAAAA CAAACCGACT CACAAACCTC CAAGTAGCTC CAAATGCAAT 180
 TTTTAAATG GAAAACAAAA ATCTGAAAGA AA 212

SEQ ID NO:7357

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08598

SEQUENCE DESCRIPTION:

GATCTAAACT GTATTTTCCA ATTTAAATTA AAAATGTAAT ATAGATTCAG AAAGGTTCAT 60
ATTTTCTAA TGACTTCATT CTATATTATT TTGTTAGGTT GCATAAAGAA GCAAGGAATT 120
GTAATTGTAT TAAAAGATGA GGAAAGCTAT TAGGNTTATT GGNCCATGCC TGAAATNGGG 180
CCTTTGCCCG TAAAAGGAA AGGTTGGCCC NTTTTNAAG GGGCNTTNA TNTGNNTTN 240
TNTAACCAN 250

SEQ ID NO:7358

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08599

SEQUENCE DESCRIPTION:

GATCTGGCTT NGCCCTAAGC NNCTTAGGNA CAGAAGAGTC CATGGGGGCA TGGCACAGAG 60
CTGGTCCTGT ATTCTCCAGG GTCCGGAGCT GGCCAGGGGC GGGGAGGAGG NN 112

SEQ ID NO:7359

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08600

SEQUENCE DESCRIPTION:

GATCTTATTT NACTTCATCC TTCTTGTAAC CATATTGTNA ATCAGGAAAG CTCAATCAGA 60
TACAAAAACA GGAAATTCGT TAAAAGTAAC GTTGTTAGAA GATACTAGTT GAGGAGGAGA 120
GACTTTTNAG AAAGCCTGTG TGTGTTTGTA AACTCTTGT GACCGTGCCA AGAAAACGTA 180
AGCAATATC AAGCCTCCAA ATCCTAATGC AACANGTCCT GANTCCCTTG CAGGTATGTC 240
CTGGATGATG ANTACACAAG CTCAGTAGGC TCCAAATTC CAGTCCGGTG GTCCCCACCG 300
GANGTCCTGA TGTATAGCAA GTTCAGCAGC AAATNTGACA TTTGGGCTTT TGGGGTTTGT 360
ATGTGGGAAA TTTACTNCCT GGGGAN 386

SEQ ID NO:7360

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08601

SEQUENCE DESCRIPTION:

GATCCGGGNA TTATACAGGT ACTGTTGGAA GTATCTTGGG GATTTTCCTG ATAAGAACAG 60
TAGTGATTGN ATAAAAAGGA CAGGATGTAA AGTGAAATCA GTAAATATC TTAGTAGACA 120
GAGGGTGCTG AAATTTTAAAC AAATGTGTAA AAAGTTCCTC CTATGCATTA ATTTTCCAGA 180
TACCCTTAAA ATGTTTAAGG AATGTAATTC AAAATACTGT TTAANAGAGA CATGTGACCA 240

TCATTCTCCC AGCGAATGTG AATCATTTAG TGNGCTACTC AAAATTAGGN GTAAATGTAT 300
 ATGTACACTA TAAGANTAAN ANTCGNTACC ATTTCTTTAA A 341

SEQ ID NO:7361

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08602

SEQUENCE DESCRIPTION:

GATCCGTCAG NCGACTCTAA AGCTAATTGT TTGTATTGGC ATGGNTTTTG CCAGGCATCC 60
 AAAATTCAGA TTAAACAACC AATGCAATCA AA 92

SEQ ID NO:7362

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08603

SEQUENCE DESCRIPTION:

GATCTCGTCT GAAACAGTGT TTGGAAGTGG GAACAGTTTT GTCCTGTATG CTGATGTGTC 60
 CAGAATTICA TTTAATGATA GACGGAAAAT GTGTGGTTAC TGAAACTGT ATATGATACA 120
 GAATTCATA AGAGCCATGC TGTTGGGCAA AGCAACTCTT TTTCAACCAC TGCTCATCAG 180
 TTTCTGTAGA GACAAAACT CTGTACATAT TTTGGAATCT GAAGAATCCT ATGTAAATCA 240
 TTTGTTACTT AAGTCTGTGA AAAACATATT TCTTTGGAGG AAAATGTATG CATTATAAG 300
 TGTTCATGG AATCAGTTTT TATTGTATCG ATATAATTGT CTCTAAGTGT TGA CTGTCN 359

SEQ ID NO:7363

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08604

SEQUENCE DESCRIPTION:

GATCTCCTTA CACTGCTATT CCAGAGGAGA AGNCACCAGG TCACTCAACT CTTAGTATCA 60
 TCTACTGGAA ACTGGCTAAG ACAGTATTTA TGTGCTTCTC TCACAATAAC AGGAAGATAN 120
 CTATATCACA CAATGGATAT GGCAGTTGGC TTGACTGCAG TAATCATTTA ACTATGTATA 180
 TGTATATCAA AACATCATGT TGCATACCTT AAATATGTAC AATAAAAAATA AAATCTAAAG 240
 GANATAANTT AANATTACCT TCCACCAGGC AAA 273

SEQ ID NO:7364

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08605

SEQUENCE DESCRIPTION:

GATCAGGGAT GCAGTACCAC TTGCAGTCAA ATGAATTCCT TCGAAATGTA TTTNNACTTG 60
 GACCCCACT GATGCTTGAT GCTGCAACGC TTAACACGAT GAAGATTTCT CGTTTCGAAA 120

GGCATTATA TAACTCTGCA GCCTTCAAAG CTCGAACCAA AGCTAGAAGC AAATGTCGAG 180
 ATAAGAGAGC AGATGTTGGA GAATTCTTCT AGATTTTCAG AACTTGAAGA CTATTTTCTA 240
 ATTTCTATTT TTTTCTTAN TTCAATGTAT TTAAACTCTA GACACAGTTT TTATCCTGGA 300
 TTAACCTAGA TAACTTTTGT AGCAGTGGTT ATATTGCTTA TAATTTAATG TACAATTN 358

SEQ ID NO:7365

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08606

SEQUENCE DESCRIPTION:

GATCTACNGT GAATATAAAA TGTTATTAGC CTTATCAAAT AAATAAATGA GCANAGCTCT 60
 TTGTTGCTC TATTGAACTG GGTGATAATN ATTTAGATGT GAATGTTAGG TCAGTTCTAC 120
 TGTAATAACT AATCGTAAAA GTTGTAATN TGTTAATGG ATGAAATGTA CANTTTTGT 180
 ATTCTNTACA GCTTTGCTT TTTTAAATAT GAAGTACTTA AATGTACTTA CTATGATAGG 240
 AAATATAATG TGTGCCTTCT AAA 263

SEQ ID NO:7366

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08607

SEQUENCE DESCRIPTION:

GATCTAAGTA AAATGTTTTG AAGTTTATCA GAAACTAAAT GTACTTTTAA AACGTATAGG 60
 GTCAGGGTTG GGGGAAAAAT ACAGGTATAG TAAGNAAGAA AAGTGACCCA TGAAGAAAGC 120
 ATCGTGAGGT TGTATGTTGG TTGACTGTGA TTAAATGCG GGGCTGGTGT AAGTTGTAAG 180
 TGGTGGCTGA TTGCCGTGTA ACTATGTACA TGATTGTTGG GATGGCTGTC CCATATTTTG 240
 TATATTGGAA TAAAAATTC TATAANTTAT NGTAACTAAA AGTAAATATT CTAAATTAAG 300
 TCCCACTNCT TAAGTCACAT GGCTTCTGTC TTGGGAATTT TACCTTTTAA NANGATTATT 360
 TTNAGN 366

SEQ ID NO:7367

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08608

SEQUENCE DESCRIPTION:

GATCTTGGCT GTTCTTTCTA TTCTGCCAGC CATCTTCCAA AAAAACTAA AGCAGAAATT 60
 TGAGTAAAAA TAATCATCTG ATTTTAAGTT TTGCTGTCAT CACCATCTCA GGATTAACAG 120
 CTGCGACTTT AGGTGGGGTA TATTTCTTC TCCTAAGAGA ATAGACAGTT TTTCCAGATT 180
 CATCATCATT GACTGTCAAG AAAGGACCCT TCAGCAAGGC TGTACCNTCA ATGCAGTTGA 240
 TGGCCTGTNT TCACGGNTT ACAGACTTGG CCTGATGCCC ATGTAANTTC AAGCTTTGGC 300
 TTGTGGNAAC AACCACANGG ANGCAAGGC ATCTGTNGGT GCGGGNGGGC AAAGCAGGCT 360
 TANCTNGGGN GGTGACN 378

SEQ ID NO:7368

LENGTH:421

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08609

SEQUENCE DESCRIPTION:

```
GATCTAGAAA CCCTTTTACC TGGCCCCAAG GCTCTAGCCA GTGGTCTCTG GTGACCCCTG 60
CAAGCTCAGA GATGGGGNTG TTGTGTGCCA GGCATGAGCT TCCCCAAGAG GCAGAGGGCA 120
TACATCCCAT TTATACATTC CCTAAGCCCA CCCCTGTNTC CTCAGGCACC ACCTGCCCTG 180
GTCAGCTCCA GCCAGTCCCT GCTGGAGTGG TGCCAGGAAG TNACCACTGG CTACCGTGGG 240
GTCCGAATCA CCAACTTNAC CACATNNTGG CGCAACGGCT TGGCCTTCTG TGCCATCCTG 300
CACNGATTNT ACCCAGACAA GATGTGAGCT GCCAGAGGGG TGGGACGAAT GGGGGAGCCA 360
TCAGGGAGGG CAGTNTGGAC CCAGCTTTGA CCAGANAATT TTTNGAGTGC TTTGCTNGTT 420
N 421
```

SEQ ID NO:7369

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08610

SEQUENCE DESCRIPTION:

```
GATCAGCAAT GAGTCGGCAA TTGACTTCTA CAGGAAGTTT GGCTTTGAGA TTATTGAGAC 60
AAAGAAGAAC TACTATAAGA GGATAGAGCC CGCAGATGCT CATGTGCTGC AGAAAAACCT 120
CAAAGTTCCT NCTGGTAAGA CNNCAGNTGT NAAAANGCCA GCAACCTGNC CAATTCCAN 180
TGANCCTTN 189
```

SEQ ID NO:7370

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08611

SEQUENCE DESCRIPTION:

```
GATCTGGTGG AGAAAAAGAAG CAAAACTTTG TTTTAATTTA CTGTTTTTTT AAAATCTTTT 60
TGGATATTGT TTTGCATCCC ATACATTTGC AACTGGCAAT GAAATGTAAG CTTTGGTTCT 120
GAAAAAAAT AAATGTAGCT ATTCAAA 147
```

SEQ ID NO:7371

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08612

SEQUENCE DESCRIPTION:

```
GATCCACATG CNTGTGGCAG CCCAAGGCTT TGTTGTAGGA GCAATGACTN TTGGTATGGN 60
CTATNCCATG TATCGGGAAT NCTGGGCAAA ACCTAAGCCT TAGAAGAN 108
```

SEQ ID NO:7372

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08613

SEQUENCE DESCRIPTION:

GATCTTTGAG CTGTGGTTTC TCCACCTGTG GAATATAAAT GTNAACAACA TAACCTTCTT 60
TCTAAGGATA ACTTGAGAAT TAACAGTGCA AGTAAATGGA AAGTATAGTA CCTGTNACCA 120
GATATTTAAT AGTAGTTATT ACGAAATTGT AACTCACTAC CTGTNTTAGT TGAGGTTTAT 180
CTTCAGCCAT GCAAAATCAAA ATCAGATTAT TTNCACATCA GCAGATAAGG TTTGTNTGAG 240
ANTCTNATTT TNNATTGNT ACTCTNATTT NNN 273

SEQ ID NO:7373

LENGTH:419

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08614

SEQUENCE DESCRIPTION:

GATCACAGAT GTAGTTCCTG AGGTTGAGTC TCCTTCTCAG ATGGATGTTG AATTGGTGAG 60
TGGGTCTCCT GTGGCACTCT CACCCAGCC TCGATGTGTG AGGTCTGGTT GTNAGAACCC 120
TCCCATTGTG AGTAAGGACT GGGACAATGA ATACTGCAGC AATGAGTGTG TGGTGAAGCA 180
CTGCAGGGAT GTATTCTTGG CCTGGGTAGC CTCTAGAAAT TCAAACACAG TGGTGTGTTGT 240
NAAATAGTCC TTCCTGTTCT CCAAGCCAGT GAAGAGTTAT CTGCTGGGAA AGTGTCCAAG 300
AGCCTGTTTT TGAAACACAA GCTGGGCTTC TGGTAGTGCC TCATCACAAAC CCATGATGGC 360
TGTTTCATGGT TTCACCCCTT TTNTTCCNT CAGCAGAGGC CAGGCTATTG GAGCAGTTN 419

SEQ ID NO:7374

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08615

SEQUENCE DESCRIPTION:

GATCCTAATT TGCACACTAT CACCTAAAGT CCTAGCATAC CTGCATTTC AGGAAATCTA 60
ATGAGAAAGA AGTCCTGAAA GCCTCTAATT CCTGGAAACA TATGAAACGG CTAGAAAAAA 120
GTAGACTATT TTGGAGGATT AAAGACAATG GAAACTTTTT ACATTGTTTG TCTCACATAA 180
TGAATAAAAT TCCACTTTAA AAAATGAAA 209

SEQ ID NO:7375

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08616

SEQUENCE DESCRIPTION:

GATCCGCAGC TCGAAAAAGA ACAAGCCACA GAANCGGGCT CGCTCGTGCC AGGACACAGC 60
AGTGTCTTTA AAAAAATCAA AACCAGAAGT TTTATCAGCA GCAGGAAGNN TGTGGGACTC 120

TGTCCAAGTT CACCGTCACC ATCAAGCCAC TGGCTGTGGA AGGAGTTTNT CCAACAGGGT 180
 CAGTGTACACA GCCACAACCT CAGAAAGCAG CCATCCCGCG TGTCGTCAA ACAGCAGTGC 240
 CTGCNTCCCG CTCCACGGAG TGTTCCNGAA CACCTCCCTC TGAACATAAT CCGGAGCACC 300
 CCACCCCCAG CGAGTCCAC CTGGACCTNT TCAAAGTCAA AACTCTTCTT TNGGGCCAAC 360
 CAATTNTTCG GGCTTTNGAG GCCTTGAAC TGGGGCACCA AGTTTNTTTC CATGGGAANT 420
 TN 422

SEQ ID NO:7376

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08617

SEQUENCE DESCRIPTION:

GATCCCACCA GTTCTGGAC GTGGAGAGTC TGGGGCATCT CCTTCTTATG CCAAGGGGCG 60
 CTNNNGTTT TCATGGCTGC CCCTCCAGAC TGGGAGAAAC AAGTAAAAAC CCATTGGGGC 120
 CTCTTGATGT CTGGNATGGC ACGTGGCCCG ACCTCCACAA GCTCCCTCAT GCTTCCTGTC 180
 CCCCCTTAC ACGACAACGG GCCAGACCAC GGAAGGACG GTGTTGTNT CTGAGGGAGC 240
 TGCTGGCCAC AGTGAACACC CACGTTTATT CCTGCCTGCT CCGGCCAGGA CTGAACCCCT 300
 TCTCCACACC TGAACAGTTG GCTCAAGGGC CACCAGAAGC ATTTNTTAT TATTATTATT 360
 TTTAACCTG GACATGCATT AAAGGGTCTA TTAGCTTCA GAAAAAAAAA ATN 413

SEQ ID NO:7377

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08618

SEQUENCE DESCRIPTION:

GATCCACAAA TGAAAGGGAT ATAAAAATAA TGTCATAGGT AAGAAACACA GCAACAATGA 60
 CTTAACCATA TAAATGTGGA GGCTATCAAC AAAGAATGGG CTGAAACAT TATAAANTT 120
 GACAATGATT TATTAAATAT GTTNTCTCAA TTGTAAA 157

SEQ ID NO:7378

LENGTH:399

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08619

SEQUENCE DESCRIPTION:

GATCCTAACA GCTTGCAAT TTTGGTGCAT CTGCTCAATC AAGTCTAATA GACACAAGGA 60
 TGGCTTTTCAT CGGCTCAGGC AGCATCATGA TGAGTATGAA GATGNAATTC GCATGATGTC 120
 TACCGGCTCC AAGAAGTCCC TCCTAAGCCA TGAGTTCCAG GATGAAACAG AACTGAAGA 180
 GGAACATTA TATTCTAGCA AACATTGGNG GNCACATTTT GCATATCTCC CAGCATAAGT 240
 ACCAAGCAAA ATTACAGTTC CTCTTGGGAG AACACTGCAT TAAGGATGCG AGACTCTCTT 300
 GCTTCTTCAA AGNGCTTTTG GGAATTTAAA TTGCTAANTA TGTATTCTCA AAANAANNNN 360
 NGGGANNTT GGGGGGNTG GGTNTTNCGG AGNGANGNN 399

SEQ ID NO:7379

LENGTH:34

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08620

SEQUENCE DESCRIPTION:

GATCGGTCCC TAAACCTCAT TAAAATATTT GAAA

34

SEQ ID NO:7380

LENGTH:405

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08621

SEQUENCE DESCRIPTION:

GATCTNATGG ATATGGCAGT GGACGTGGAT TTGGGGATGG CTATAATGGG NATGGAGGAG 60
GACCTGGAGG TGGCAATTTT GGAGGTAGCC CCGNTTATGG AGGAGGAAGA GGAGGATATG 120
GTGGTGGAGG ACCTGGATAT GGCAACCAGG GTGGGGNCTA CGGAGGTNGT TATGACAACT 180
ATGGAGGAGG AAATNATGGA AGTGGAAATT ACAATNATTT TNGAAATTAT ANCCAGCAAC 240
CTTCTAACTA CGGTCCAATG TNGAGTGGAA ACTTTGGTGG TAGCAGGAAC ATGGGGGNAC 300
CATATGGTGG AGGAAACTAT GGTCCAGNAG GCAGTNGAGG AAGTNGGGGT TATTGTNGGA 360
NGGNGCCGAT ACTGAGCTTC CTTCTATTT NNCCATGGCA TTTNN 405

SEQ ID NO:7381

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08622

SEQUENCE DESCRIPTION:

GATCCTAGCC AGATTACCAG AAATTNCGTT AGTCATCTAA ATCAGAGACA TCAATTTNAT 60
TATGGAGAAT TTNTGAATCT CCAGCTAGAT GANGAAACCC AATACCAAAC TCCTGTTGAA 120
GAATCTTTNC AAGTAAACAT CTGAAGGCTG TAGACATCTC TCCATCTTTG TACCTGCAAG 180
TCCCATCTTT AAGGGGGAAG CTACATGANG TCACCGTTAC AGTAACTTGA TGTGTATATT 240
AATAAAAGTA ATTCAGTCAA A 261

SEQ ID NO:7382

LENGTH:44

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08623

SEQUENCE DESCRIPTION:

GATCTATGTA TAGATAAAGA TTAAACATAT CTAGTACAAG GAAA

44

SEQ ID NO:7383

LENGTH:109

TYPE:nucleic acid

02091

TOPOLOGY:linear

CLONE:HUMGS08624

SEQUENCE DESCRIPTION:

GATCTGTTTC TTAAAGCTAC AGGGTTTAAA AAATAAAAAT GAGTGAAAAT ACTTGATGTT 60
TCTTGAAAGA TAAATTTAAT AATAATAAAT AAATACATAA ATACATAAA 109

SEQ ID NO:7384

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08625

SEQUENCE DESCRIPTION:

GATCATTGTG GCGTCCACAA TGTATATATA AAACAAGTTG TACACATTAC CATGTATAAA 60
TTTGTGTTTG TCGATTATAT GTCAAGAAAG AAA 93

SEQ ID NO:7385

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08626

SEQUENCE DESCRIPTION:

GATCTTAATC TTATTCTCTG CCATCTTCAA ATTAAAAAAA AATTCTTTG TAAA 54

SEQ ID NO:7386

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08627

SEQUENCE DESCRIPTION:

GATCCCTTCA GAAGAAGACA TGATAGGATT GTAAGTTTTT NTCTAACTTT GGATGCAGTG 60
AGATGACCAG TGTGTTCCAG TTAAAGAAGA AGAGTGTTTT AAAATCATAA ACCAAATAAA 120
GAATCCTACC TTACATTAAA 140

SEQ ID NO:7387

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08628

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAA GCGTGANCAC TGTGCCTGGC 60
CCTTTTTTTT TTAAAGAGA TGGCATCTTG CTATGTCGTC CAGGCTGGTN TTGAACTCCT 120
GAGTTCAAGC AGTCCTCTG NTTCAACATA CAGNTACAGG TACCCCCCAC TATACATTTT 180
NAATANGGNT TCATGGNTCA GNGGGN 206

SEQ ID NO:7388

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08629

SEQUENCE DESCRIPTION:

GATCCCATG CTTTCCTGTT TAAAAATAT TTTATGCTCT TTATTTCCAC TTCTGTGAAT 60
GTGATATTC TATTTTNTGA TTATGTTACT GAATAACAA ACTTGCTACA TAAATNCTT 120
AGCAATTAAA 130

SEQ ID NO:7389

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08630

SEQUENCE DESCRIPTION:

GATCCAATTG TGGATTATT TACAAACATC AAATGCCTTC AAGCCAATCC TNITTGCTGT 60
ATGTTTTGCA GCCTACTGTA GTAGATACGC AACAGATAAT GTGGGAAAAA AAGAGATAAG 120
AGGAGGAAGC TAATAAGAGA CTGTCAAGAT TGTATACCTT CTTGGTTTCT TTAAAGAATT 180
TGTTGCCTTT NTACTATNNC AGCAAAGCAG CATTTTGTTA CTGACTGCCT AAAATCACTT 240
AATCTCAGGT GAACGCATCA CTTGCCAAAC TGTTGGAATG CTATTTGTGT TTTGTTGCAC 300
TGTTTTTTTC GTTTGTTGT TTGTTATTT GGTGGCTTT TTGGAGAGGG AAATN 355

SEQ ID NO:7390

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08631

SEQUENCE DESCRIPTION:

GATCTAAAT NAGAGAAGCA TTTAAAAAT NATTTCTGTC TTGGTTCATC TTATTGTTAG 60
TGTTTATGC TAATAAAAT TGATTAAACA ATCAA 96

SEQ ID NO:7391

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08632

SEQUENCE DESCRIPTION:

GATCCAGATA TGTCTGTTAT GAAAGATATC AGTATAGGTA AAGCCACAGG CAGAGGTCAG 60
TACTGATAAT TAATGTAGTA TAAATACATC ATTTACCATT TTATTTTAAA TAGGAAGCCA 120
TCAAGCATGC TAGAATTGTG AACTTTCATT ATATNTTTT GTTGTGACA TGAATTAACC 180
TGGCAAAAA CAAAAAGAA NNAAAAAACC ATGCCATTG TCATGTAAAC CTTTTTTTA 240
TCCCTATGGG CCTTNGGGGN CNGAATCAGT ACTTCAGTTA TTGTAATNGT GNGCTAACCT 300
CAAATTTN TN TCACCCNGTT GCCCTTTCA TGNCTAACC AATTNTCTGG GGGNTTGGTA 360
TGTTTCNCCC GGTCTGNTC ATGTTTACCG NNCTCTTTT TNGNGGTCC N 411

SEQ ID NO:7392

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08633

SEQUENCE DESCRIPTION:

GATCTAAGTT CTAAGCCAAA TAACTAACAA ATTCCAGGTA CTATGCCATC ATATAATATT 60
 TATAAATGTG TTATATATAT TATGAGATAT GTATAAGAAT ATAGAATGAA TATGTAATAA 120
 ATTATACTTT TAAATTAATA TTTTCAAATA TATAAATATG TAGTTTCAGA CTGAAACTGT 180
 TCTAAACTAT ATAAATGTAT TATGTATGTT TTATAAATA CAGTACTCAT AATATGTATT 240
 ATATGAAA 248

SEQ ID NO:7393

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08634

SEQUENCE DESCRIPTION:

GATCCTTCCA CCTCAGCCTC CCCAGTAGCT GGGACTACGG GGTGCGCCACT GCACCCAGCC 60
 TGTGTCTTCC AGCTCTAATC AGAAAGCTGC TTGTCGAGGG CATGGGGAAT CAAACTGAAT 120
 GAACTTTTCT CTGCACTGTG GCAAAACTGT TATTTTATG GATTTTACTA AATGGCGTTA 180
 CCTTTTCAAG ATTTATATGT TTGTATAATC ATAAGAAAAT TGAGCCATTA AAGCCTTGTT 240
 ATTCAAA 247

SEQ ID NO:7394

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08635

SEQUENCE DESCRIPTION:

GATCCAGGCT CGTAGNTCAC TCCCTGCCCG TNTCCCAGAG ATGCTTCACC ANCACCTGCC 60
 TCTGAGACCT CGCTCTCTGT TCCAGCAACC CTGGNTTGGG GGGTCANN 108

SEQ ID NO:7395

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08636

SEQUENCE DESCRIPTION:

GATCTTGAGC TCCTGGCCTC CAGAATTGCA GGAGAATAAA TNTGTGTTGT TTTTAATGAA 60
 A 61

SEQ ID NO:7396

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08637

SEQUENCE DESCRIPTION:

GATCAGTGTG TGNTTGGGAC TGAAGGGATG ACTAATAAGG AGCAGAGGAA AGCTTTTGGG 60
GATGATGGCA CTCTTCTCTG TCTCCATTAC GGCATTGGAT ACAAGTCTCT AGAACTCCCA 120
GAACTCGTCA CTGAAAGGGG TGAATAGTAC TGTATGTAAA TTAGGTCCNN ATTTTNAAT 180
GGGANAAATA AATATAAGA CAAATTACAC TGCTGTATTA NNTCANNTGA TAGATGTAAA 240
AGTCTAATAT ATACGTNTTT TTCNTGATAN NCCCN 275

SEQ ID NO:7397

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08638

SEQUENCE DESCRIPTION:

GATCCACGCC CTTCCGCCA GTCTGGAGAG GGCCCTGACC GAGGACTCAA CCCAAACCAG 60
TGACACAGCT ACCAATTCTA CTTTACCTTC TGCAGAGGTG GCGTTACAGG CAAAGTGAGG 120
AGGGAGCTGG GGGACACTTT CGAGCTCCCA GCTCCAGCTT CGTCTCACCT TGAGTTAGGC 180
TGAGCCACAG GCATTTCCTG CTTATTTTAG GATTACCCAC TCATCAGAAA AAAAAAAG 240
GCCTTTGTGN CCCNTGTTTT GGGGGGATTA ACCNGTTTG GGTTTAAA 288

SEQ ID NO:7398

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08639

SEQUENCE DESCRIPTION:

GATCTAATTN CTATTCATT TATTCAGAAA TAGCATTTAG ACATAAAANC CAATGTCTCA 60
CTTTGTAAAA TAACCTTTGG CTAATTTACA CACATCTAAT ACAGCGTGTT ATATAAGTTT 120
TAAGTAATAC AATGAGTCAC TACTATCATT CAGTTTAAAN TATTTNNGT GTTAACAGGG 180
CTGAGAATAT CATGTGGTTC AGTCTTCTGN NGGNCGTTAT ATNATACCNG CNTAGTGCCT 240
TTGACCATGC NGAATATCCT CAAGGCCAGA CATCCTACAN CGGAACTGNN 290

SEQ ID NO:7399

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08640

SEQUENCE DESCRIPTION:

GATCNTAAG TACTCTTCTC TANAGAATAA AATGCATTAC CTAGGCTTTA ATAGTTAAAA 60
GCTGGNATTT ATNGACCCGC ATCTACTTGA TTTCANAATA TGCATTGATT TTAGTATGTT 120
GCTGNTCTGT TATCTGTACT CAACTATANC AGAGTAATAT ATTGTGGTNT TCTGGACCAA 180
AANTCGTGCT ACACATATGT CTGATGGCCT TNACCTTTTC ANGACAACAG TTGCAATTTT 240
GAGCACAGTC CNCCTAGTGG TANTCTN 267

SEQ ID NO:7400

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08641

SEQUENCE DESCRIPTION:

GATCGGGAGC AGCCCCACTG GACCTAGGTG CCCCATCTGT TGGTCATCCA TCCTGAAGGG 60
ACAGGAAACC TCCCAGGCAG TTATTTTTTT TTCTCTATAT TTCTAGTAAA GTTTTCGATA 120
TGTTAAA 127

SEQ ID NO:7401

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08642

SEQUENCE DESCRIPTION:

GATCACTAGT GCAGGAGAAC ATTACATTTT CTTCTGAAGG CAAAATGCTT GTAGGTTTTG 60
CCTCTACTTT GTATTTACTT TTAATAATTG ACTTGTTTAC CTACCAGTGT TTACGAAATC 120
CTGTATTTGG GATGCTTTTT CTATAATAAA ATATTATAAT TTGTGAAA 168

SEQ ID NO:7402

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08643

SEQUENCE DESCRIPTION:

GATCATAGTA AAGAGTAGTC AATAGGGTCT TCAGCTATTA ATTGTAGAGG TGATTAATAAC 60
CAACAAGGAG TTTCATGTGC AAAGGAGATA AGGAATGAAT ATAAAGATTG CTATTGGGT 120
GGCTCTTATT AACTGTGTA TTTTGTACTT ATCACTACAC GTATCCCCCA AATGCTTACA 180
TGGGAGTTG AGGTTAGTAT TTTCACTTCC TTGGTGTTAG TACTCTATTC ACATTCTTAT 240
TGTAACCTTC CTCATTTTAC AGATAAGGAA TCTTTGGGGA TTAACCAACC TCCTTTCTGT 300
AATGGTAATC ATTAAANTAA GTN 323

SEQ ID NO:7403

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08644

SEQUENCE DESCRIPTION:

GATCACTTAN GCCCAGGAGG CAGAGGTCAC AATGAGCCGA AATTGTGCCA ACTGCACTCC 60
AGCCTGGGCA ACAGAGGAAG ACTCTTCACA GAAA 94

SEQ ID NO:7404

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08645

SEQUENCE DESCRIPTION:

GATCGGGGCT TTGTGTTTAA CCTCATCAGA CATTATTGCA GCCAGCTGTC AGCCAAGCTC 60
 AGTAACCTTC CAACGCTCAT TTCCATGAGG CTAGAGTTCC TGAGAATCCT CTGTAGCCAT 120
 GAGCATTACC TCAATCTGAA CCTTTTTTTT ATGAATGCTG ATACTGNTCC NACATCTCCT 180
 TGTCTTCCA TATCTTCCCA GGTAAATAAA GAATTATTTA ACTAAA 226

SEQ ID NO:7405

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08646

SEQUENCE DESCRIPTION:

GATCCAGTCA GAGCCAGGGA GAGTGTGTTGC CTTAAGGAGG GACTCCCTTG TCCAGGATGG 60
 GGCTGGCACT AGGGATGGGG TGAATCTTAG GACAGGAGTG GGGGTCAGAA ATGGGAGGGG 120
 TAAA 124

SEQ ID NO:7406

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08647

SEQUENCE DESCRIPTION:

GATCGACCAG CAGGTGGTCT ATATCCATCC TTCCAGTGCC CTCTTCAACA GACAGCCAGA 60
 ATGCCCAAAG AACTTCCTCC CTNTGGTTGC TGTAGGTGTC TCATTGGAGC AGTGCCTCTC 120
 CAAGTTTGAG GATNTGAACA AAGAACTGGG ACTGGTGACT TGTNANNGNN NAGTTCAGAG 180
 GGCAGAGGNC CATCATCTCA GCTTNN 206

SEQ ID NO:7407

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08648

SEQUENCE DESCRIPTION:

GATCCATAAG GAGGGCTGTG TGGNGAAGAT TCAGGGACTG ANTAGAGGGA AAATCGTGCT 60
 ATNCGGTAGC TACAGCAGCC CTGGGAATNC CNTTTTGTG AGN 103

SEQ ID NO:7408

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08649

SEQUENCE DESCRIPTION:

GATCCATAAG NAGGGCTGTG TGGAGAAGAT TCGGGNCTGG CTGAGGAAAA ANCGGCTGGT 60

GGTAGCTACA GCANCCCTTG GAATACCCCTT TTGTCGAGGT TTTGGGNATT GTCTCN 116

SEQ ID NO:7409

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08650

SEQUENCE DESCRIPTION:

GATCTATCAT GTATCTTGGT GATTACAGTT AATAATATAT TGTATATTG ANAATNGAAA 60

SEQ ID NO:7410

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08651

SEQUENCE DESCRIPTION:

GATCGCACCA CCGCACTCCA GCCTGGGCAA CAGAGCAAGA CTGTTTCAAA ATAAATAAAT 60
AAATAATAA ATAANNCTTT CCAACTNCAA A 91

SEQ ID NO:7411

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08652

SEQUENCE DESCRIPTION:

GATCTTGTGG CTAAACCAGC ATTTCTGTGT TTGAGAGATT TCCTGTTAGG TGCTTCGTCT 60
GAAAGTGAAC TCTCATAATT CAAATTGTAT AAANTAAAGC TACATTTCTA AGAGCTTGGT 120
GTAGGGCAAT TGAATANTG TCCTGTTAGA TAAACAGACA TTAGCANTC CTGACATTAA 180
AAGGAAATGT ATTTCTATAC AGGATTATTA GCTGTANTAC ANGATATTTA TTTANCCAAA 240

SEQ ID NO:7412

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08653

SEQUENCE DESCRIPTION:

GATCGCACCA CTGAACCTCA GCCCGNATGA CAGAGTGAGA CCCTGTTTCT AAAACAAAAA 60
CAAACAAACA AACAAACAAC GTATCTTACT GACTAAACTG GAATGGAAAT CTTATAATNA 120
GTGTTGTATT TTTCTGCAAA ATAGTGAATT NGNACTTGGG AGACTTCNNN NCTTTGTTGA 180
AAAAAATTGC CTTTGTTTTG AAATTATATC ACCTGTGTTT TGANCTAAAA TGNTGGGAGT 240
TCATNNN 247

SEQ ID NO:7413

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08654

SEQUENCE DESCRIPTION:

GATCCATAAG GAGGGCTGTG TGGAGAAGAT TCAGGNANCT GACTGAGGAA AAATNTGCTG 60
GTGGTAGNTA CAGCANCCCT TGGAATACCC TTTGTGCGAA AAATAAAGGA ATTGTCTTCA 120
NCCTGCTN 128

SEQ ID NO:7414

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08655

SEQUENCE DESCRIPTION:

GATCCATAAG NAGGGCTGTG TGGAGAAGAT TCAGGGAGCT GACTANAGGA AAAATGTGCT 60
GGTGGNANAT ACAGCAACCC TTGAATANC CTTTGTGCGA GAATAAAGGA ATTGTCTN 118

SEQ ID NO:7415

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08656

SEQUENCE DESCRIPTION:

GATCTTTNTN ATATATGCAG TCCCATCCCT TCTGTGCCAC TCAATGCCAT CCAGACATGG 60
TTTNCCTC CANGGGCCTT TCTCTCCAGA GGGCACTTCG GCTGCCTCTG CTTCTCTCA 120
TTCGAGGCC GNCTCTTNT NACAGAATAG N 151

SEQ ID NO:7416

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08657

SEQUENCE DESCRIPTION:

GATCCCGTTG CCTCATGGAA CTCATGCATT TCACGCTGCT TGCCCTTTCT GTGCTACACA 60
GCTGGTTGGG GNGCAAACT GCATCAAATT AATTNCCAA GGTCCAATTG ACTGACGCC 120
TTGACAGCCA TCTACGACTT TATTAACAGG TTAGTGTGAA GATTTNCCA CTAACCTAG 180
ATTTNCCTT TTTGTAATGC TGTTTATCAG AGGCGGGTGA CANGGGCTGG AAATAAAGNG 240
AGGGGACATG GTGATGAAAC ATGGCAGGNG TGTACAGATA CCAGTGGTGT GTTGCATGCT 300
CAANACAGCA GCGTCGTCAA TGGCGTCTGC TTGNTGNNC CATNATGTCT TTGCATAAT 360
TGGNAANNA NNNN 374

SEQ ID NO:7417

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08658

SEQUENCE DESCRIPTION:

GATCTTTATG TCACTAGTTA TAGTTAAGTT CATTGAGACA TAATTATATA AAAACTACGT 60
 GGATGTACCG TCATTGAGG ACTTGCTTAC TAAAACTACA AAACCTCAAA 110

SEQ ID NO:7418

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08659

SEQUENCE DESCRIPTION:

GATCTTTTTA ATTCAGTACA ATCTCTGAAG GTGTAAACAC TAATNTTTTA CAAGAATGTA 60
 GAGGCGACTC GGTGCTATGA AGCGTGTTAA ACAACTCACA CAATTGCTAC AAAACACCAG 120
 GGAGGGGCTT TTTGTGTTT TAATTTTAA AACATTTTTC CTTTCTTGT GAGCCATAGT 180
 AGGCCTAGAG AGATTACTGG GTTTTATAA TAAACATT ATTTCGGTGA AA 232

SEQ ID NO:7419

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08660

SEQUENCE DESCRIPTION:

GATCTTAACC AGTCGAGTGG AGTGACATT GTCTGAATAC AGGATGCACA ATGTTGTCAA 60
 TCCTGGAAAT GGTCTTCTT TTTGTAAGA TATGTGAATG AAGTGTGGT GTCCTCACCA 120
 AGAGGTGGCA CCTAAGGGTT CTGAGGAAAT AAATGTATAG ACCCTTATGT ACAGACCTGT 180
 GTATAANCAN CTNNNGTATA TACATATAAG GATAGCTTTT TTGACCTATA CAGCTGTNCA 240
 TAAAAGTAGC TGATATTAGT TAGGCCTGTG TCACCAGTTT GGNTTTTTTN CACTGTNCA 300
 TTTGGGATTT NNTTTTNGGT GGTAAAAAT GGCATATGCT AAGGTGTGTG ATTGGGAANA 360
 AANNANNANN 370

SEQ ID NO:7420

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08661

SEQUENCE DESCRIPTION:

GATCTGTGTT TTAATGAGTT TCACAGTGTG ATTTTGATTA TNAATTGTGC AAGCTTTTCC 60
 TAATAAACGT GGAGAATCAC AAA 83

SEQ ID NO:7421

LENGTH:394

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08662

SEQUENCE DESCRIPTION:

GATCCTCTCT TACCCCGTCC CCAGGTTTGA AACACATAGC CTCATTTC AA GGTGTAGCCA 60

DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET
COMPREND PLUS D'UN TOME.

CECI EST LE TOME _____ DE _____

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2153480

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COMPREND PLUS D'UN TOME.

CECI EST LE TOME _____ DE _____

NOTE: Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

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THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE
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THIS IS VOLUME 8 OF 8

NOTE: For additional volumes please contact the Canadian Patent Office

GGTCCCCCG ACTTTCCTCT GGGATATAAA AAAGGGGGTA AGGGGGCAAA GAGAGCCCTC 120
 TGGGACTCTC CTCCCATACA CACTACACTG CCCCTTCTCC CCCCATCAA ACGCTCAGNG 180
 ACGTTGTGAT GATGCGACTG AGGATTATGC AACGTGGTCC AACC GGAGCG GNCAGCATGA 240
 CCAGCTGTCC AGGGGCTGNC TNCTGCCTTT TCTTTTGTA AAGCCANGAC CCTTGGGGAG 300
 TTTTAATNCT GTTTTGTACT TGNCTGTGG GGNCTNCACT TGCTTTTCT ATGGGAGACA 360
 CTTTNAAT TTAACAAGNT GNGGGTTTTT TGNN 394

SEQ ID NO:7422

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08663

SEQUENCE DESCRIPTION:

GATCCCCATG CCGAGGGCC CTCGGCTGG CCTGGGCATG TGATGGCTCC TCACTGGGAG 60
 CCTGTGGGGG AGGCTCAGGT GTCTGGAGGG GGTGTGTGCC TGATAACGTA ATAACACCAG 120
 TGGAGACTG CAAA 134

SEQ ID NO:7423

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08664

SEQUENCE DESCRIPTION:

GATCATGNGT TTCCTCATGA GGACAAATAC CTGATTTGA ATAAAGCAGC ATTCAGTTGA 60
 AATAACAAA 69

SEQ ID NO:7424

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08665

SEQUENCE DESCRIPTION:

GATCAACATT TTTTAAAAA GAGCATTAAA GAAAGAATTG TGGTACAATA AA 52

SEQ ID NO:7425

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08666

SEQUENCE DESCRIPTION:

GATCACACAT TCAGACTGTT GTGTCTGTGG AGTTT TAGGA GTGGGGGGTG ACCTTTCTGG 60
 TCTTTGCACT TCCATCCTCT GCNACTTCCA TCTGGCATCC CACGCGTTGT CCCCTGCACT 120
 TCTGGAAGGC ACAGGGTGCT GCTGCCTCCT GGTCTTTGCC TTTGCTGGGC CTCTGTGCA 180
 GGACGCTCAG CCTCAGGGCT CAGAAGGTGC CAGTCCGGTC CCAGGTCCCT TGTCCTTCC 240
 ACAGAGGCCT TCCTAGAAGA TGCATCTAGA GTGTCAGCCT TATCAGTGTT TAAGATTTTC 300

NTTNTATTTT TAATTTTTTT GAGACAGAAT CTCACTCTCT CGNCCAGGCT GGAGTN 356

SEQ ID NO:7426

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08667

SEQUENCE DESCRIPTION:

GATCGTCGCC CCTCTGCCAA CTGCGACCCC TTTTCGGTGA CAGAAGCCCT CATCCGCACG 60
TGTCTTCTCA ATNAAACCGG CGATGAGCCC TTCNAGTACA AAAATTAAGT GGACTAGACC 120
TCCAGCTGTT GAGCCCCCTCC TAGTTCTTCA TCCCACTCCA ACTCTTCCCC CTCTCCCAGT 180
TGTCCCGATT GTAACATAA GGGTGGAATA TCAAGGTCGT TTTTTCATT CCATGTGCCC 240
AGTAAA 246

SEQ ID NO:7427

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08668

SEQUENCE DESCRIPTION:

GATCCTTGCA GGAACCTAAG GATTACAGCA GCTGCAGATG GCAGGAGCTA CAAGCCAGCA 60
GCAGCCAATG CTCANTGGGG TACAAATGGC TCAGGCAGGT CAACCAGGGA AAATGCCAAG 120
TGGAATAAAA ACCAACATCA AGTCGGCTTC CATGCATCCC TACCAGCGGT GAGTGTGGCT 180
GGCAACCTCG ACTCCCTGGT GCTCTTTGCA GAGTTGGGCA GTGAAATNNN NNNNTGCTCA 240
AGGCTCACCT AGGATGGGTA CAATAAAAAG AACATGGGCT TTCAAA 286

SEQ ID NO:7428

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08669

SEQUENCE DESCRIPTION:

GATCACTAAC AGGTGATGGG CTTGTGCCC ACTCCAGAGA TATTGTGGGA GACAAATTCT 60
TTTAACAGCC TGTCTCCCG GCATCAGGAG TCATTGAACA ATCATGGATT GTTGTGTTG 120
GGATTTTTTT TTTTNGGN TTNNTTTTGG GTTTNGNGN GTGTGTGTGT GNCCTGN 177

SEQ ID NO:7429

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08670

SEQUENCE DESCRIPTION:

GATCCAGGTG GTCCAGGAGC CCAGGACAGG CCTTTNCTGT GGGCCCTGGC CAGACAGGGT 60
TACCTGGTGA GGTGCAGAGA GTCCCTCTAG TGGCCATTTT GTATGGTAGT TGCTAATGCA 120
GAACAAGTTC TGTCTTGGGC TTAAATTGAC TGAAGACTTT AGGGGAAAG AATAGTAAAT 180

GCATGTAAAC AAATGGGGAC ACTCTGTTC A GGAGAATAAT CCGACTGGCA TTTGTGGCAG 240
 TTTTGTAAAT GTAAATGTAT TCATGTGTGT TCTTGTAAT ACGTGTGCT CAGATGTCCT 300
 TTGAAGTGGG AGGGAATCAA TCCGGGGATA ATTTCAAATG GAATAGAGTA TTTTGATATT 360
 GTTCATTCAG AGGGTGATGT GTACACAN 388

SEQ ID NO:7430

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08671

SEQUENCE DESCRIPTION:

GATCCCCACT GTCAATGGGG GATTGTCCCA GCCCCTCTTC CTTCCCCCTC ACCTGGAAGC 60
 TTCTTCAACC AATCCCTTCA CACTCTCTCC CCCATCCCC CAAGATACAC ACTGGACCCT 120
 CTCTTGCTGA ATGTGGGCAT TAATTTTTG ACTGCAGCTC TGCTTCTCCA GCCCCGCCGT 180
 GGGTGGCAAG CTGTGTTTCA ACCTAAATT TCTGGAAGGG GACAGTAAA AGAGGAGTGA 240
 CAGGAGGGAA AGGGGGAGAC AAAACTCCTA CTCTCAACCT CACACCAACA CCTCCCATTA 300
 TCACTCTCTC TGCCCNATT CTTCAAGAG GAGACCCTT GGGGACAAGG CCGTTTCTTT 360
 GTTCTGAGC ATAAAGAGGA AAATAATCT TN 392

SEQ ID NO:7431

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08673

SEQUENCE DESCRIPTION:

GATCTTTGGG AAGGGAGACT AGGGCAGGTG GAGACAGCGC AGAACCCCG TGCTGGGTGG 60
 GAAGCATGAC CACACGGTGG GTGAGCAGCC CCCATGCACT GATGGTAAAT TCCCCTGTGG 120
 ACTCAA 127

SEQ ID NO:7432

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08674

SEQUENCE DESCRIPTION:

GATCTGTCTG GCATGTCAGG AGCCAGAGAT ATTTTATAT CAAAAATTGT CCACAAGTCA 60
 TTTGTGAAG TGAATGAAGA GGGAACAGAG GCGGCAGCTG CCACAGCAGG CATCGCAACT 120
 TTCTGCATGT TGATGCCGA AGAAAAATTC ACTGCCGACC ATCCATTCTT TTTNNNNNTT 180
 CGGCATAATT CCTCAGGTAG CATCCTATTC TTGGGGAGAT TTTCTCCCC TTAGAAGAAA 240
 GAGACTGTAG CAATACAAAA ATCAAGCTTA GTGCTTTATT ACCTGAGTTT TAAATAGAG 300
 CCAATATGTC TTTATAANCT TTNCCCANTA AAAACCCACT TGTCCCAAAG AAA 353

SEQ ID NO:7433

LENGTH:399

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08675

SEQUENCE DESCRIPTION:

GATCTAATTG GCTTTTATTA GCAATTCATG AGCCCGGCAG CATCCAGTCT ACAAATAGA 60
AAGGAGTGCC ACTAAGCTAG ACAGAATGGA TGGGTTTTAT GGCAGAAAAA AGTGAAGCA 120
AGCAAGAACA ATGAACAAAT TAATGGATGG ATTGTTTTAA GATTACATT CTTTATGGG 180
AGTAAACAAA ATCTTGTTAG CCTAATGGAA TTTGGCATCA TCTCCTGATT TCTCAGAAGG 240
TCATATCTTG TAAGTGAACC ATTTAGGTTT GGTGACCTGG NACCTTTGGC ATAANGTGAC 300
TCCATTTTGG GGCCTGCTGC CTTTTCTTT AAAAANGGAG TGACACCNTA ATTTCCATGG 360
GNNGAGCACA CANNATGCCC TTGTNTTGCA GGACCTNCN 399

SEQ ID NO:7434

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08676

SEQUENCE DESCRIPTION:

GATCTGACC ATATTCCTCA AGGTCTCCTT TTCCTTCCTC CAGTGTAACA AAATTCCTG 60
CTGGCGTCCT ATGTAAAGAT AATCGGCCCT TTTGGACCT TTTGTTGGN TCAAGAATTT 120
GGGTGGGAGA AAAGAAAGTG GGTATCAAG GGTGATTGA AATTTCTGC AGCATTAAAG 180
CTGGCGCTTA ATAAGAATAA GTAATAATAA AGAAATTCT AACATTCAAA 230

SEQ ID NO:7435

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08677

SEQUENCE DESCRIPTION:

GATCCTGAAA ATAGCCCCGT GAAGGCAGAA ATGTATGTGA CTAGAACGAG GCCACATGAA 60
TAAGCCACTG CCCACTGGCA GGAGTGAAAA CTGAAGCGCT CTTACCTGA AGGACCCCAA 120
AACCATATAG AATAGAATAA CCAGGAGTTC AAA 153

SEQ ID NO:7436

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08678

SEQUENCE DESCRIPTION:

GATCTCACA GCNCTTTCCC TCTTGGTGCC TCAGTTTCCT GACCTATGAA ACAGAGAAAA 60
TAAAAGCACT TATTTATTGT TGTTGGAGGC TGCAAANTGT TAGTAGATAT GAGGCATTTG 120
CAGCTGTGCC ATATTA 138

SEQ ID NO:7437

LENGTH:361

TYPE:nucleic acid

02104

TOPOLOGY:linear

CLONE:HUMGS08679

SEQUENCE DESCRIPTION:

GATCATGGCT AAAGATGACC TCTCTGGTGC TGACATCAAG GCAATCTGTA CAGAAGCTGG 60
 TCTGATGGCC TTAAGAGAAC GTAGAATGAA AGTAACAAAT GAAGACTTCA AAAAATCTAA 120
 AGAAAAATNTT CTTTATAAGA AACAGGAAGG CACCCCTGAG GGGCTGTATC TCTAATGANC 180
 CATGGCTGTC ATCAGGAAAA TGGTTGGGAG ATTTCTCAAT CCCTGAAAGG ATGAGGTTGG 240
 GGGAGTTGCC CAGAGGAATC CCTGTTCCCA CTGATTTTAA TTAGCAAAAC ATCCTGTGTC 300
 TTTTGGAGTA CGNTGTGTAA GTGCCCATG GGTGGCCTGT TNGGTCACTG TGCAGCAGTT 360
 N 361

SEQ ID NO:7438

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08680

SEQUENCE DESCRIPTION:

GATCAAAGTG TAAACACCAT AGGGACCCNT TCTACACAGA GCAGGACTGC ACAGCGTCCT 60
 GTCCACACCC AGCTCAGCAT TTCCACACCA AGCAGCAACA GCAATNACG ACCACTGCTA 120
 GATGTCTATT CTTGTTGGAG ACATGGGATG ATTATNNCT GTTCTATTG TGCTTAGTCC 180
 AATTCCTGC ACATAGTAGG NACCNNGTTC AATTACTATT GNATGAATTA AGAATTGGTT 240
 GCCATAAAAA TAAATNNGGT TCATTAAANG TNN 273

SEQ ID NO:7439

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08681

SEQUENCE DESCRIPTION:

GATCAGAGGA ATGTTATNTT GTTCAGCCTT CTGGTTGGTT CACAGTAGTG ATAGTATTGT 60
 AAATACTCAG AGCAATCCTA CAAGAAGAAA ACTACATNAG CCCCCACATG TTCCCCCCTA 120
 CATACCCCAT CACAGCAACT GAAAACAAGA GAAATGTTAG TTTTCTGTGG AAA 173

SEQ ID NO:7440

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08682

SEQUENCE DESCRIPTION:

GATCTCTTGA ACTCTGGGTT CTCCCAGCCC CTTGTCCTTC CTTCCAGCTG AGCCCTGGCC 60
 AACTGGGGC TGCCTTTCTC TNACTCTGTC TTCCCCAAGT AAGGGGGCTC TCTNAGTGCA 120
 GGGTCTGATG CTGAGTCCCA CTTAGCTTGG GGTCAGAACC AAGGGGTTTA ATAAATAACC 180
 CTTGAAAACT GAAA 194

SEQ ID NO:7441

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08683

SEQUENCE DESCRIPTION:

GATCANATGA AGAAAAGGAG AGGTAGATAC AGTCAGTGTG ACTTCAGGAA AGCTATTTAA 60
AAAANCTTGA AATATAATTG AAAGAAGAAA CAACACCAAA NAAGCCTAAN CCTAGCCTCT 120
GANCANCACT AN 132

SEQ ID NO:7442

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08684

SEQUENCE DESCRIPTION:

GATCAATCTG AGGAGACTTA ATAATGATAT TNATTCTCCC AATTCATGAA TATAGTATAC 60
CCCTGTATTT ATTTGTNTTC TTGAATTTCT TTTATCATTG TTTGTAGTT TTCACCATGA 120
CAGTCTTGCA CATATTTTGT TAAATGTACA GCTGAGAATT TAATTTTCC TGGTGTACAA 180
TGCTAATAAA ATGGTGCTTT AAAAGAAA 208

SEQ ID NO:7443

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08685

SEQUENCE DESCRIPTION:

GATCCTCTAA GGTCTACAG TTTACTTCTT GTATTCTCCT TTGTAAGTCA TCTCCAAGAC 60
GATGTCCAAA TCCATCACCA TTAATAATTA TAGTTTCCTC ACCCACAACA CTTAATATTT 120
TAAAAAANGA TACTTTTCAT TGTATTATAA TTAATTGATA CATACATATT TGCTCTGTGA 180
GTTCTTATT CATCATATTA GTGCCTGACA ATAAATGTGT GCTGGATTGA GCTGAATCTT 240
TAAA 244

SEQ ID NO:7444

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08686

SEQUENCE DESCRIPTION:

GATCCTGCAA TTCCACTTAT AGGAATTGAC CCACAAGAAA TGAAAGCAGG GACTTGAACC 60
CATATTTGTA CACCAATATT CATAGCAGCT TATTCACAAG ACCCAAAGG CAGAAGCAAC 120
CCAAATGTTT ATCAATGANT GATTGATTGG CTAAGCAAAA TGTGATATGT NCCTAACGAA 180
GTATCCTTCA GCCTGAAAGA GGAATGANGT ACTCATACAT GTTACAACAC GGACGAACCT 240
TGANANCTTT ATGCTAAGTG AAATAAGCCA GACATCANCA GATAANTAGT TTATGNTTCC 300
ACCTACATGN GGTACTGNGA GTN 323

SEQ ID NO:7445

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08687

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTCATCCTC CCAAAATNCT GGGATTACAG GCATAAGCCA CCGTGCCTGG 60
 CCTCTTTAAT AATNTTNAAT ATACCCTAAA GGCTTGTGAA TATACAAGTC TACTGATAAA 120
 TTATGTATTG TCTGGGAATT TGATAGTNAT TGTTTATAGT AACTGGNTTT TACGCTGTGG 180
 TAGNCNGGCT GTGACACTAG TGTTGCACAG GTGTAATTGG TCATCCTATG CCTTCACCAG 240
 AATAACTTGG GAGTGGTGCC AGAANCTAGA GTCTACAATT CTCACTGTTT AGAGAGTGTT 300
 ANTGNCATAC TGTGTATN 318

SEQ ID NO:7446

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08688

SEQUENCE DESCRIPTION:

GATCAAGATA GTAGTATTAT TACACAAGAA ACTTGGTCTG CAGTCTGGAA GCTTGTCTGC 60
 TCTATAGAAA TGAAATGCA GCATGAAGTT GACATTGTGG AAATGAAAGT AATTGGGTAT 120
 TAGAAATCTG AAAGTACTGT CATCTAANAG CAATTGTGAT TTTNTTGTAA TTGGTTGTCA 180
 CTGTTGTNCG GTGTCTAGNG TTANNGAATA CATGTNANCT TTCATGGTAT TTNGCCTTTC 240
 TTAANTTTTT TTAAATTTA ANCTTTCTAA CCTATGTATT CAACTTCTGT ATTTATATNT 300
 NATCAGTGGT TCATGTN 317

SEQ ID NO:7447

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08689

SEQUENCE DESCRIPTION:

GATCATCAAA GAAAGACAGG GTGACCTGAG GATTATATGT TCAGCCAAGC TCCCCTCCAA 60
 GCATAAAGGC TACAGATAAC CATTTGTACA TATTCAGGAA CTGGAGTAAT GTGATTCCAA 120
 TGAGCCTGTC TTGAAGGAAC TCCTAGGGGA TTAACCTCAG CTAACCTGGG AAGTTATCTG 180
 GAGAAACCAC AACAGAAGGA CTGGTTGTAG TTCGAGGCTG TAGTCAGCTA TGATTGCACC 240
 ACTGCACTCT AGCCTGGATA ATAGAGCAAG ACTTTGTCTC CAAA 284

SEQ ID NO:7448

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08690

SEQUENCE DESCRIPTION:

GATCCCTAGT ATAACACATT CAGTGTTCCT CTTTCAGTCT TACTACTTTN ACCGCGATGA 60

TGTGGCTTTN AAGAACTTTG CCAAATACTT TCTTCACCAA TCTCATGAGG AGAGGGAACA 120
 TGCTGAGAAA CTGATGAAGC TGCAGANCCA ACGAGGTGGC CGANTCTNCC TTCAGGATAT 180
 CAGGAAACCA GACTGTGATG ACTGGGAGAG CGGGCTGANT GCAATGGANG TGTGCATTAC 240
 ATTTGAAAAA AANTGTGAAT CAGTCACTAC TGGANCTGCA CAANCTNGCC ACTGNCAAAA 300
 TTGACCCCN TTTGTNTGAC TTCN 324

SEQ ID NO:7449

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08691

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGAGGGGT TCGAGACCAG CCTGGCCAAC ACGGTGAANC CCATCTCTAC 60
 TAAAAATGCA AAAATTAGCC GGGCGTGGCG GCACATGCCT GTAATCCCAG CTACATGGGA 120
 GGCTGAGGTG GGAGAATTGC TTGAACCCAG GAGGCGGAGG CAGAGGCTNC AGTGACCCAA 180
 GATTGTGCCA CTGCACTCCA CCCTGGGCAA CAGAGCAAGA CCCCATCTCA AAAATAAATA 240
 ANTATATATA NAAAATAAAA NGCTATTTCT NGNNNTTTC ACTATAAAGT TTTGCTTTAT 300
 TAAAAAGCTA NTANGCAGCT ATTN 324

SEQ ID NO:7450

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08692

SEQUENCE DESCRIPTION:

GATCTTAAAC TCAGTAAGCC ACTATCTGCA ATTTGTACA TTATATAGTA TTTGAAGAT 60
 ATGGAACCTT ATGAAAAAAA AATAGCAAAT NAGTTCTTTT TCCCCAGAG GGGAAAGTTA 120
 TGTNCTGCAA ATAGTGTGTG TCTTATTTTA CTGTTGANCA GCAATNGCNN NTTATTTTTT 180
 NATTGCCTAG AACTTCAACA TGTGTATAG GAATCCTGTA GTGCCACTAG TAAATGCCG 240
 AATTCTCATC TGGATGTTAC CATCAAACAT CAGTACACTT GTCATTTAC ATGTGTTTAA 300
 TGTGACAGTT TTTCACTACT GTNTNN 326

SEQ ID NO:7451

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08693

SEQUENCE DESCRIPTION:

GATCTNGTGG GCATAAATAA AGGTGTCATA AAGACAAA 38

SEQ ID NO:7452

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08694

SEQUENCE DESCRIPTION:

GATCTTAAGA AGTGCTTTGA AGGGTTAAGA ATCAGGGGTC CAAGAGAGAC CCCAGTCCCT 60
CAATAAAGCC ACAAGAGCCC AAA 83

SEQ ID NO:7453

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08695

SEQUENCE DESCRIPTION:

GATCTACACT CCAGGCCGGA AAGAGCAAGG GGAGCCCATG ACCCCTCGCC GCACGCCAGC 60
CCGCTTTGGT CTGTAAGCTG AGGCTGTCCC CAGAGAGGAT GGCAGCAGGT ATTGGGTCCT 120
CAGCCTTCTG GCGGGAGCCT GAGGCTGCGG ACAAAGCCCT TTAATCTAAG GACTTTAATC 180
TGTNCATATN ACGGCCCCC AGGGCAGTTC CTGCTGGACC AGACTCTNTG GCAGAGGAGG 240
TGGAGTTCTT CCATGCAGGA GCACGNCATG GCGGGAGCGG GGCTGCAGAG TATCCGNGGT 300
GCTGCCGNGG CACGGNGAGG TNGCTNGACC CATCGCATCT AAAANTAGGA N 351

SEQ ID NO:7454

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08696

SEQUENCE DESCRIPTION:

GATCTAAGGT TTTAAAAGAA TTTGGTTGA AAATATACAG TTGTCTTGAA GGAAA 55

SEQ ID NO:7455

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08697

SEQUENCE DESCRIPTION:

GATCTGTTCT GTTTCACCAT GTAACACACA ATACATGCAT GCACTGTATT AGTGTTAGAA 60
A 61

SEQ ID NO:7456

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08698

SEQUENCE DESCRIPTION:

GATCCCATTT TCCTCTGACG TCCACCTCCT ACCCCATAGG AGTTAGAAGT TAGGGTTTAG 60
GCATCATTTT GAGAATGCTG ACACCTTTTC AGGGCTGTGA TTGAGTGAGG GCATGGGTAA 120
AAATATTTCT TTTAAAGAAG GATGAACAAT TATATTTATA TTTCAGGTTA TATCCAATAG 180
TAGAGTTGGC TTTTNTTTT TTTTGGNCCA NGGGGGGGGG TTTTTTCCC NTGCCCCCCT 240
GGGGTTTTTN NANTCCNGT NNAAAANAA ANN 273

SEQ ID NO:7457

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08699

SEQUENCE DESCRIPTION:

GATCTTAACC AGTCGAGTGG AGTGACATT GTCTGAATAC AGGNTGCACA ATGTTGTCAA 60
TCCTGGAAAT GGTCTTTCTT TTTTGAAGA TATGTGAATG AAGTGTGGT GTCCTCACCA 120
AGAGGTGGCA CTAAGGGTT CTGAGGAAAT AAATGTATAG ACCCTTATGT ACAGACCTGT 180
GTATAACAA CTNTGTATA TACATATAGG ATAGCTTTT TGTACTATAC AGCTGGTACC 240
ATAANAGTAG CTGGATANTT TGGTTAGGNC NGGTTGTCCA CCAGTTTGG NNTTTTTTTT 300
CACITGTNTN CATTTTGGGG GATTTTCCTT GTGGTTGNN TAAAAANTG CATATGCTTA 360
NGN 363

SEQ ID NO:7458

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08700

SEQUENCE DESCRIPTION:

GATCCGTATT TCCAATAAAA TCCCCTACCT GAATATTCAA GTTAAACATG TCCAGAATAC 60
TTACTGATT TATTGTTAAT AGCCACTATT CTGTTGTCTG GAATTA AAC CTGTATAACT 120
AATTTGCATC CCTTTATCTT CTTAGTCAAT AAAACCTACA ATCCTCTTTC AAA 173

SEQ ID NO:7459

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08701

SEQUENCE DESCRIPTION:

GATCACCCCC CAACTTGCCC TTCAAGTTCT ACTTCAGTTT GATAAGGCTA TAAATGCAGC 60
ACTGGCTCAG AGGGTCAGGA ACAGAGTCAA TTTCAGGGGC TCTCTAAATA CGTACAGATT 120
CTGCGATAAT GTGTGGACTT TTGTACTGAA TGATGTTGAA TTCAGAGAGG TGACAGAACT 180
TATTAAAGTG GATAAAGTGA AAATTGTAGC CTGTGATGGT AAAAATACTG GCTCCAATAC 240
TACAGANTGG ATAGAAAANN TATGACTNNT TTACACCATC TTCCTGTTAT TCATTGCTTT 300
TTGAAGAGNA GCATAGANGA GACTTTNTN TTTTATNCTN GGAATTTN 349

SEQ ID NO:7460

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08702

SEQUENCE DESCRIPTION:

GATCTGGAGT AAGGAATATT GTCATCACCT GGATTTTGAG AAAGAAAAAT AACTTCTCTG 60

CAAGATTTC TAATTGAGAG AATTCCTGAG TTGATAGCTC TAAAGGCAGA TATGCTGTAT 120
 TTGCCTACTT TAACCCATTT TTCAACCTGT TTGTTTTTA ANNGGNTTCA CTAAGGGTTG 180
 ATATGTACCA TTGTATGGG CAATTTAAG TCAGCTAAGG CAATAACCTT ATGCATGAGC 240
 ATTTCCAGAG CTTTCATGAA GCTGTTGAGG TCCTAGGCAA TTAATGCAGC AGTTGCGATA 300
 AATAAANGNC NTCTCACCTA AGNNTCCNTT TTCTCNATA ACCATGGTTC CTGGNCATGN 360
 TTGGGAGGCT NCTCGGCTTT AGGGNAANGG GGTTN 395

SEQ ID NO:7461

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08703

SEQUENCE DESCRIPTION:

GATCGCCTCC CAACAGCAGA TTTCGACATT ACCTGAGAGT CTTGATTTTA GGCTTGTTTT 60
 TTGTAAACCC ATGTGTTTGT AGAGATTTTA GCGCTCTTCG GATATCTTCT CACCTATGTT 120
 CCCTGGCTAA GAAGTCAGAG GTAGCCAATG TTTCCTTAAA TTCATTTTAA AACTTACCAT 180
 TGGTGCATAT GTTCCAGATG GCAGATGCTG TCAATAATCT CACCATTGAT GACCTTTGTG 240
 TATGTAGTTC TTGCATCCTA TACTGGATAA GCCTGTTTTA ACCTGCTATG ATGGGTGCTT 300
 TCCATTGCTT CNTAATCTTC ATGGAGGGTT GCCATGCTTT TTGCCNN 347

SEQ ID NO:7462

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08704

SEQUENCE DESCRIPTION:

GATCGGNATG TAATAACAGC ATTAACCTAC AGACCTTGGA GCCTAAGCCA TACAGGAGAT 60
 GGGAAACCAC GCTATGATAC TTNCTGGAAA CATTTTATAT TTNTAATGAT GGACATTTN 120
 CTCGATTGGA GCATGCATAA TANCTTGTGG TACCTGTGTG GAATTCANC TTCTCATG 180
 CAAAAGGATT TTNTATCCCC GGCCTACTTG ANGAAGTGGT CAGCTAANGG NNTCCAGGTT 240
 GTTGTTGGA CTGTAATACC NTTGATGAN AAGN 274

SEQ ID NO:7463

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08705

SEQUENCE DESCRIPTION:

GATCAGAAAC TTGCATATGC GTGAAAAAAG GAAGAGCAGC AGAAAATAAA TAAATGACAG 60
 GAAAGCAAA 69

SEQ ID NO:7464

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08706

SEQUENCE DESCRIPTION:

GATCTATAGC AATGTGATTT TATTTTAAAA AAGAAAAGCA GTGTGTTTTC TTTTTTTGTT 60
 GTTTTCTTTT GCTTAAGCAC TTCATCAATT GCTTTATTCT GTATCTGCGA AGTNATCTGC 120
 AATCTCTNNT GNNCTTTNTA AAATTTGGAT NTGTTATAAA AATTGNCCAN ATTGGAAGGT 180
 GTTTCAGTTA AAAAAANAN 199

SEQ ID NO:7465

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08707

SEQUENCE DESCRIPTION:

GATCACAAAC TTGGAGGGCT GTATGGTTTT TCATTTAAGA AAGTAATTGT CGTGCAATAA 60
 AGTTATTAAG CCTTGTTTAA GAATATTTTT ATTTTGTACA TCAAGTGGAG TTGGAATAG 120
 TTGGTTTCAT AATGATATAT TTCAAAAGTA TCTTGAAGTC ATCTGGTTCA TTTCCTACC 180
 CAGGGCACAC ATTCCTCCTG TAACATCCCA AGTGGTTATT AAGCAAAACA GATTTATTTT 240
 ATTTAGAAAA NNTAGTATG ACTGATTGTC TATTGATTTT GTACTTCTAT AAATNAATGT 300
 GGATACATGC TATATTCAAA 320

SEQ ID NO:7466

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08708

SEQUENCE DESCRIPTION:

GATCACTTAC AGGTGCCCTC TCCCCCAACA GCCAGAAAGG GAAAACAGAG CCGAGTTTGG 60
 CCACTGGGGC CTCCACAGCC CTCTGGAAGA AGGGGCTGAC TGATAGGAAG GCACTCCTCT 120
 GGTGTTCACT GGCCAGACCC CTGTGGGCTC AGAAGACTAC CTAGACCCCA TGAAGAAAGA 180
 CTCTAGACAC ATTTTATAA TCAGAACTT ACAGTTTATT GTGAATAAAC CACTCAACTT 240
 TGAGCAGATG ACATTGCCTC ANTTAACTTT TTCGTTGAAG AAAACAAAAG ATATATGGTA 300
 AATTCATGAA A 311

SEQ ID NO:7467

LENGTH:434

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08709

SEQUENCE DESCRIPTION:

GATCATCAAC AAAGACTTGT TAGAAAGGTC TAGTCTTAGC ACTTGGCAGT TAATCTAGGG 60
 AAGATGAATT AAATGGGTAG ATAGTGATGC ATACCTGTAT TCACTGATGT ATGTTTAAGG 120
 GATTTGGGGG GGATACCTCA GTTCATGTGG AAGGGACAGT CTCGGTGTGT CCCATGAATA 180
 ACCTTGGAAC TGCAACAAAT GGTTTGTGCT CAGAAAAAGT CTTTCATGGT GACAGGAAGA 240
 CAGTTTCCTT GGAGCTGGCC ATGAAGGCCT TAGAAGCCAT TTCTGGTGTC TGGTGGGTAG 300
 CAGGCATAGA GATGATGTNC CGAGGTCCCA GTGAACACCA GTAGCCAAAN GAATTGTACT 360

ACCTTNTATC CATTANTTNG GGGGAAGGTCC TTCCCTNGGG NAACCAATGN CCTTTTTTGN 420
TGGGCCAAAA TTTN 434

SEQ ID NO:7468

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08710

SEQUENCE DESCRIPTION:

GATCGAGCTG TGGACTTATA CCTGTGTGCN TGGTTTACAG GTCCAGTGGT TCTTCAGCCC 60
ATGACAGATG AGAAGGGGCT ATATTGAAGG GCAAAGAGGA ACTGTTGTTT GAATTTTCCT 120
GAGAGCCTGG CTTAGTGCCT GGCCTTCTCT TAAACCTCAT TACAATNAGG TTAGTACTTT 180
TAGTCCCTGT TTTACAGGGG TTAGAATAGA CTGTTAAGGG GCAACTGAGA AAGAACAGAG 240
AAGTGACAGC TAGGGGTTGA GAGGGGCCAG AAAACATGA NTGCAGGCAG ATTCGTGAA 300
ATCTGCCACC ACTTTATANC CAGATGGTTC CTTTCACAAC CTTGGGTCAA AAAGAGAATA 360
NTTGGCCTA TNATGTTANA AGGAANGCAG GNNGGTGGGT TNAANTAAAA NTTN 414

SEQ ID NO:7469

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08711

SEQUENCE DESCRIPTION:

GATCAGTATT TTTAATCAAC ACCTGAGAAC TGTTACACCT TTNATTTTGT CTTNAGGAA 60
ATCCTGTCT TTCCATTTT TCATGTAAAT NTGCACAGT TACTTGTCA TATGTAAATA 120
TTTTACTTTC AGAAATNAAG TTTTAATTG CTATTGTTT ATATAGGATT GAAAGAAAAT 180
NAACTCCTT ATAAAAACA AATTTATCTG TAAA 214

SEQ ID NO:7470

LENGTH:418

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08712

SEQUENCE DESCRIPTION:

GATCCATTTC CTCAGGACTC AGTTAGGTGT GCCCAGACGC ACTGACAAAA TNACGTGACT 60
TCAGGGAAGC CTGGACACCC GAGGCACCTG GACCAGCTAT GGGTAGTTCT GTGGGTGGAA 120
CACATTCTGT GTAAGAGCCC CACTGAGGCG TCTGCAGCGG AGTGACAGCA ACCCCAGAGA 180
TGAGGCACCA GAGAGTGCCA CTGCATGAGA CACCTGTGAC CATTGGAAGT CTGAAATGCG 240
GGGGGGGAGT TTCATTTTGA AGTGAAGACC AAAAGCCCTT TAAAAATAAT AGTTTTTTAT 300
CATTTTATAG TAATCAGCGG NNTCTCTTT ACTAATATAC TCATTCCTNT TCGGTATGAT 360
TGGNCTTTTG GAGCTACATG CTCNACAAN NCTGTATCTT AATTGGTTAA CTTGTTAN 418

SEQ ID NO:7471

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08713

SEQUENCE DESCRIPTION:

GATCTTGGCG TTGTGGTAGA TTGCCTTCCT GTGCTCACCA ATTGTTTACA GGAAGAAAAA 60
 CAATATATCT CACTTGGCTG CTGTGTTGAC TTGTTGCCTC TAGTAAAGTC ACTACTTAAA 120
 AGCAAATTTN AAGAATATGT TATAGTTGGT TTAAACTGGC TTCAAGCAGT CATTAAAAGG 180
 TGGTGGTCAG AACTATCATC CAAAACAGGA ATTATAAATG ATGGAAATAT TCAAATTTTA 240
 AAACAACAAT TAAGTGGATT ATGGGTACAG GANAACCATC TACTTTGGT TCCAGGATAT 300
 ACTGGTAATN TAGCTANGGG TGTAGNTGCT TTTTTCTTT CCAGTTCNT TGNNGGATTT 360
 CCTCTNCCTG NGGGGCATT TGGTTTTCA ANACCNTCCC NTGGACCTGT TTTANTTTTC 420
 CN 422

SEQ ID NO:7472

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08714

SEQUENCE DESCRIPTION:

GATCGCCTTA ACTACTGTAA ACATAGCCTA TTTTGTGCT TAANATACTG AATGGAAAAC 60
 TCCATTGTGT GTTGCTGGAC TGTTTTGGAA ATATNNNGTT AAATGTGTGT TAATTGGCT 120
 GTAATGGCAT TTAAAGCAAA CAAACAAACA AAAAAAGCTG TGAAAATGGC CTTGGAGCAT 180
 TATCTTTAGT TACTTGAAGA GTTCTAGTT TTTTAAAAT ACAGTTTATG TTAAAATAAT 240
 TTTANTTAAT TTAGAGANGC CAATCATTGT CTGNGGGGAA ACCGGCCTTN CNTTTGGGN 300
 TTNCNTTTN GTGGGCCATT GGTGAGGTGA GTGCCTNTN CCCGTTTCNT TNGGTTTCN 359

SEQ ID NO:7473

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08715

SEQUENCE DESCRIPTION:

GATCTTTAAA GTTATTTTAA GGCACATTG TGACAAACAA CTACTTGATA TTGAAATCTC 60
 CNTCAGCCAT TAGAAGCTAT CAAATAAAGT AGGTGTAAAA ACAA 105

SEQ ID NO:7474

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08716

SEQUENCE DESCRIPTION:

GATCAAGTAT GCTAATNTTA AGCAAATGTA AAAACTCATA AAACAGGTAA ACAGTGGGGT 60
 GATTTCATTT GCCATAATTC ACATAAGACG AATTTTAATC TAAA 104

SEQ ID NO:7475

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08717

SEQUENCE DESCRIPTION:

```
GATCCTTGTT TTTAAGTTAC TTTCGATGTG TATACGAACA AAGACCAGGG AGAAACAGAA 60
CTTTTAAAC TATAGGCTGC TGTNTGGGG CCAGAAATAA GGTGACAAGT AAAGACTTTT 120
ATAATACCTA CCTTCAAANT TAGAATCAGC AGCACTGTAC AANTAAAGTG CCTGTGCTTC 180
ACCTCACACC AAGANTCTTG CCTAACCCGT TCAGAGTGCC TAATATCCTG TGGTGATTAT 240
GTATAATGAA ACAGTCTTAT TTTGTGCTCT TTGGTTTCTT AAAAGGAAAG CTTGTTTTCT 300
TTCCTTTATC ATTACAGAGG TATGTCTTTG GTTCTTANTN 340
```

SEQ ID NO:7476

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08718

SEQUENCE DESCRIPTION:

```
GATCTGTGAA AAAATACAGT ATTGTAAATC CAAGACTCTG ATACTGAATT TAAGTTATTT 60
CACAGTTGTA GCTACACAGT AAGTAGCTTG GTAGATAGTT ATTGANTGTA TTTATGTAGT 120
GTATTAAGAA GCTTATATTA CTACAAAAA CTTATTTTAA TATATNTNNN TATNTNNGTN 180
TTATTTATN 189
```

SEQ ID NO:7477

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08719

SEQUENCE DESCRIPTION:

```
GATCTGTGTG ACAAATNAT TTCTTAGCTA TAATCAGCAC ATCACTTAGT TCAAACAAAA 60
TTCCCAGCA AATGTTAGAT AGTAGGTATA TCAGTCACCT GGGGAGTTTT CTTCATAATA 120
TGCATATTCA TCTNGTAATG CATACATAGT TATCATCCTC CTTCTCAACC CATCTCCCTA 180
ACCCACATG CTTGCCAGTT CTTGAAGGGA TAAAGTGATT GTAATAGTGT TTNACTNCTC 240
TCTGTTCAT TTANTGTGAT ATAATTCTAG TNTAANNNTA TTTNGGACAG TNGCTTAACC 300
ATGGTCATAA GAGGATTTGT ACTATAGATT ATCTCNGGG GN 342
```

SEQ ID NO:7478

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08720

SEQUENCE DESCRIPTION:

```
GATCTTTGTC AACCAAAACA TGTATTTTCA ATAAATTGAG ATTCCCAGTT CAAA 54
```

SEQ ID NO:7479

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08721

SEQUENCE DESCRIPTION:

GATCTGTTTC CCTTCACAT TTTCCCCATT TTGTGAGCAT TTCCTTACTT CCTAACATGA 60
CAAAATATTT CAAACTAAA 79

SEQ ID NO:7480

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08722

SEQUENCE DESCRIPTION:

GATCCCCCTG GCCTGGAGGC AGCAGCTGTA TAAACTCTAC GAGGCCGACT TTGTTCTCTT 60
CGGCTACCCC AAGCCCGAAA ACCTCCTCCG AGACTGAAAG CTTTCGCGTT GCTTTTCTC 120
GCGTGCCTGG AACCTGACGC ACGCGCACTC CAGTTTTTTT ATGACCTACG ATTTTGCAAT 180
CTGGGCTTCT TGTTCACTCC ACTGCCCTCTA TCCATTGAGT ACTGTATCGA TATTGTTTTT 240
TAAGATTAAT ATATTCAGG TATTTAATAC GAAATGTGAA A 281

SEQ ID NO:7481

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08723

SEQUENCE DESCRIPTION:

GATCTGAGTC CAGGCAGTGT TTTTAAGNGA TATGAGTTAG TAGTGAAAAT TGAAAAGGAT 60
ATTTTACAAC CAAATACAGG TTTNNTGGTG TTTTTGAAA AATCCAAAGA TTTGGCAACT 120
CGACCTAGGC TCCGACAAAA CCACAGTTGT TGGGAGCTGA GCCGGAGCCA GAACTCACAA 180
TTCACCGTGG CCCGGCCACC CATCCCCACC ACTCCCGTGG GCTCCTGACC AAGCACCACG 240
TGCCATTCAT CATGGCTTGC TTTTAGTGTT TTTGGTGTTT ATCTTAAAGT ACAGCGAAGA 300
AGAAAGGGAA GTATTTNTTA GACCCN 326

SEQ ID NO:7482

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08724

SEQUENCE DESCRIPTION:

GATCTGGATT TGGTAAAGGT TGACTTAATT GAACTCTCTG AAAAATGCTG TAGTGACTTT 60
AATTTGCACT CAGAATTAGA GCGCTCATTT TTGTCAGANC CATCATCTCC AGGAAGAACC 120
AAGACTACTA AAGGATTCAA ACTTGGGAAG CACAAGCATG AGACCTTTAT AACGTCAAGT 180
GGAAAATCTG ANTACATTGA NCCTGCCAAA AGAGCTCATG TTGTGCCACC ACCAAGAGGA 240
AGGGGCAGGG GTGGNTTGG ACAGGGTATA CGACCTCATG ATATTTTNG TCAGNGNAAC 300
CAGNNCACAN GTNGACCACC ATCTNTGCNT N 331

SEQ ID NO:7483

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08725

SEQUENCE DESCRIPTION:

GATCGGAGTC GCCAGGCAGT ATATCCAGTT AGAACTTCGG GGCTTTTGCA TTAGCTTGTC 60
 TGATGCTCAT GCCCCACTCA GAGAAAAGAC ATCAGCAAAT TAAGAATTTT CTGGGTTTCCT 120
 GTGACCCTCA GGTATTTTA AAGCAATTGG AAGAGCATAT GAACACGGGC CAGCTAGCAG 180
 GATTTTCACA TCAAATTAGA AGTCTGATT TGANTAATAT CATCAATAAG AAGGAGTTG 240
 GGATTTTGGC AAAGACCAAA TACTTTCAAA TGTGAAGAT GCATGCGATG AATACCAACA 300
 ATATCACTGA GCTAGTGAAC TATTTGGCAA ATGACTTN 338

SEQ ID NO:7484

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08726

SEQUENCE DESCRIPTION:

GATCCGCCCT CTTAGCCTC CCAATCCTCT CTAAAAAAG TGATAGCTCA GAAATATTTG 60
 TAAAAGCAAG GTTTTATTT CATTTTGGCT CTGTCATTT CAGAGGCAAA GAAGTTGGCC 120
 TGTAATAAG AGTGCTAGAG CTCCTACGCC CCTCCCCTTC TTCCCAACTT CCTACTTCCT 180
 AGCCCTTTTA TCAACTCCTA GAATAGTTAA AGAGAGACAC ATCTAGATGG GATGAAAGGT 240
 GCCCTAAGCA GGAGAACCTG ANCAAAAGGC TAGAGGCATG GGCCAGGTAA AATTGGGGC 300
 CTAGAGTGAA GNCTGTGCTG TCGTTAAGNG CTTTCGAN 338

SEQ ID NO:7485

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08727

SEQUENCE DESCRIPTION:

GATCACAGTG ACAAAGAAGA TGAACAGCCT CAAGTGGTGG TTTTAAAAA GGGAGACCTG 60
 TCAGTTGAAG AAGTCATGAA AATTAAAGCA GAAATAAAGG CTGCCAAAGC AGATGAAGAA 120
 CCAACTCCAG CCGATGGAAG ANTCATATAT CGAAAACCAG TCAAGCATCC CTCAGATGAA 180
 AANTATTCAG GTTTAACAGC AAGCTCAAAA AGAAGAAGC CAAATGAAGA TGAAGTAAAT 240
 CAGGACTCGG TCAAAAAGAN CTCACAAAAN CAANTTAANA TTAGTAGCCT CCTTCTTTT 300
 GACAACGAGG ATGAAAATGA GTAAGTGTA TTTNTTTN 338

SEQ ID NO:7486

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08728

SEQUENCE DESCRIPTION:

GATCTTAATT CATATCTTGA AGATAAAGTC TACCTTACAG GGTATAACTT TACATTAGCA 60
 GATATACTAT TGTACTATGG ACTTCATCGC TTTATAGTGA GTATTTGTAT AGTACTGGC 120
 TTTTTTCTG TAGTGTGAG AATGATTTT AAAACTTTGT CTGAATTTA AATCAGATTT 180
 GCATTTTGG CTTATCAAAT AAAAATGAAA GGAATTCCTT TATACAAGGT GCCTTTTGTA 240
 ACAAACCTGC ACGTTGTGAC ATGTACCCTA AAACCTAAAG TATAATANTA ATAANNTNA 300
 AA 302

SEQ ID NO:7487

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08729

SEQUENCE DESCRIPTION:

GATCAAAAGT GAATAATGTA TGAATGAGAG CTGTAAGAAG GATTTTNATT TTGTTATAAT 60
 TTAGTTACCA TTTTCAGTGT TATTTCAAAG GTTCTTTGAA GAATTTTGGG GCAGGGCATC 120
 AGATTAGAGT. TTTAAAATTT GAGTATTTTG GATATCAGTG TTCCTCATGA AGATATACAT 180
 GGATATNCAA TTTTGATGGC TTCCAGATTT GTAAGATTTT ATGTTGTATA TACCATTCTA 240
 TTAAGAAACA TGTCCACTGT GCTTTCAAAC ATAGATAAAG CATGATAAAG ATTATNATTT 300
 AAGATATACT TGTATTTATA CCTCAGATAT TCTN 334

SEQ ID NO:7488

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08730

SEQUENCE DESCRIPTION:

GATCAGCTGG ATA CTCTGTG NACCAGAATT CCAAAGGTTT TGATAGAATC AAAGATGGAT 60
 ACAAAGTGAA CTCACACATA GCTAAGCTGC AAGAGTTATG GAAACTCCC CAAAATCAA 120
 CAATCCACCT CTCTAANTCA NTGATGGAGG CGTCCTTTT CAAGCATCCA GACCTACCA 180
 CAGGCCAGAN GCGTTACCNG TGCAGCATTG CTAAANTCTA TAATGCAAAC TATCTGANGA 240
 TGTTAATGNA GNGGCAGTAC ATGCACGTNC TTCAGCACAG CTCACAAAAG CCAGGTGTCC 300
 TCACTCATCA CAGNNGCCGC CTTNGCTCCC GTTTATN 337

SEQ ID NO:7489

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08731

SEQUENCE DESCRIPTION:

GATCATTTAG AACACTGNAC ACAGCAGCTT CAGGCAAAGG GAAAAGAACT AAATGAATTC 60
 CGGGAAGAGC ACAACATTCG TCTCATGGGA GAAGATGAGA AGCCAGCAGC CAAGGAAAAC 120
 TCAGAAGGGG CTGGGGCTAA GGCCAGCTCA GCTGGAGTGT TGGTCTCCTA GGGACCAAGG 180
 CCTTTGCATT TTTTCTACC CTGACTCCCA CTTCTAATTT CTCTTTATTG TTATTATTAT 240
 TATTTTCTCT GCTATTGTAA TATTTTTTTG TTAATTAAAT GTTTTGGTTA AA 292

SEQ ID NO:7490

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08732

SEQUENCE DESCRIPTION:

GATCAACTGC AAACAGGCAC GAAGGAAGCTT TTTGGGTGA TGAAAAATAA AACTTTGGAT 60
GTCGAACATA TTTTGAAACT AGATTGCAAT NATAGTTGCA TAACTNTATA CATTTATTAA 120
AATCGTGGA CACTTACAAA 140

SEQ ID NO:7491

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08733

SEQUENCE DESCRIPTION:

GATCCGGTCT CCCCCGCCCC CCGGCTGCAG GGTGGATAAA GAGGAAGATG TGAAGAGGAG 60
GCAGACAAAA GCAAAGGAC ATCCTGTGAG TAGGAAACGG CCGAATTACA ATTCAGATGT 120
GCAATGTTTG CATAAGTAAA CTGACACGGG ACTATTATAT GCAGAANTCC ACGTGCAAAA 180
NTTTTCAGAC ACACCTTTGT ACCTCTNCCT AATCCTGCCC TGGTAAAATG GCGGTTATCA 240
GTGCAAGTTT GAGGATACAT ACAGCTGGAA ANTGGNCATC ACCAAACTGG ACTCCAGAAA 300
GTNCTGTCTA GGATTTTATT AGACTGCTTT TTTNCAN 337

SEQ ID NO:7492

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08734

SEQUENCE DESCRIPTION:

GATCTATTTT TCAGTAATNA GTGTGTGCCT CATGCCTGTT TCAATATTGG GTTTTGGAGA 60
CANTATTGTA CCAGGCCTGT TGATTGCATA CTGTAGAAGA TTTGATGTTT AGACTGGTTC 120
TCCTTACATA TACTATGTTT CGTCTACAGT TGCCTATGCT ATTGGCATGA TACTTACATT 180
TNTNGTCCTG GTGCTGATGA AAAAGGGGCA ACCTGCTCTC CTCTATTTAG TACCTTGCAC 240
ACTTATTACT GCCTCANTTG TTGCCTGGAG ACGTAAGGAA ATGNAAAAGT TCTGGAAAGG 300
TAACAGCTAT CAGATGATGG ACCATTTGGN TTGTCAN 337

SEQ ID NO:7493

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08735

SEQUENCE DESCRIPTION:

GATCGGCCTG CGAAAGGATA CTGTGAAATN ACTAATTAAC TAATAAACCT GTCTCAAGTT 60
GAGGATTGA AGAAA 75

SEQ ID NO:7494

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08736

SEQUENCE DESCRIPTION:

GATCTGGGGT ACTTGGCAGG GCTTCCCTCA GACAATACCT TAGAGAGTCA CAACCATTCC 60
AGGGTCTGGT CTACCTCACA TCCTCATTCA TTGTTGGATG TGCTTAGCAT AGCCAGAGGT 120
GTCTTCTCTT TGACAGACTT GCTATCTGAA AAATAAACCA GGACACCAAT TTTTTCAGCAT 180
ATAATAGAGG ACATCCCTTC CCAGCTATAG GAATGCTTGG TATCCTTCCA AGAACTCCTC 240
CTTTAGAGGA GCCTCACAGA AGTTGCTGGG TAAACATGGG CTCAAACCAA GGAAAGTCAG 300
GTAACCTGGG TGGNGGTTAT CCCACCACCA ATGGCAGGGG GTN 343

SEQ ID NO:7495

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08737

SEQUENCE DESCRIPTION:

GATCAATATT GTAAAGAATT TATTCTGATA AATNAGAAAC TGGATATAAT GTCAAAATAG 60
CTATTTTCTC AATAAAAATC TCAAATCTCC TGAAA 95

SEQ ID NO:7496

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08738

SEQUENCE DESCRIPTION:

GATCCTCCCT CCTTGGCCCC CCAGTGTTGG GATTACAGGC ATGAGCCACC GTGCTTGGCC 60
TGGAATNAAT TTTTATTTGA AGTTATTCTG TATCTCCAGT GTTGGCATAT GCTAGACATT 120
CAATGAATAT TTGTTGATTT AAA 143

SEQ ID NO:7497

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08739

SEQUENCE DESCRIPTION:

GATCAACAAA ATGTGGTATA TTCATACAGT GGAATATTAT TCAGCCTCTA AAAGGAAGAT 60
ACGCTGACAT GTGCTGCAAC ATGGATGANT CTTGAGGACA TGATGCTAAG TGAAGTAAGC 120
CAGTCACTGG AAGACAAATA CTCTATGCTT CCNTTATGT GAAGTATCTA GAGCAGTCAA 180
ATGCATAGAA ACAAGTAGAA TGGTAGTTGC CAAGGACTGG GGGAGGAGGA AATGAGGAGT 240
TGTTTAATGG GTATAGTGTT TCATTTTTGC NAGATAAAAA GTCCTGTGGN TTGGTTGCAC 300
AGTTAAGTTA TGTGANTGCT GTATGCCCAA CTCANCTGTT NN 342

SEQ ID NO:7498

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08740

SEQUENCE DESCRIPTION:

GATCCAGTCG GCCTGGAGAT TCTACGCCAC CAACCTCTCG CGCACAGACC TGCCTCCAC 60
GTGGCAGTAC TACGAGCGAA CGGTCACCGT GCCCATGTAC AGGTACCGCC GCCGGGCACC 120
TGCCACCAAG CAACTGTTTC ATTTTTTATT TTCCATTTGT TCTTAAACCC CACTTTTTGT 180
TGTTTCATTAT TTTGATTGAT TTTNNNTTCT TTAAATGTA TTTTCACAA AGGAAA 236

SEQ ID NO:7499

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08741

SEQUENCE DESCRIPTION:

GATCCTAACC CTTTAGTATG CTGGAATTCT ACTCTTCACT TACTGCATTG ACTGTTGTTG 60
ATTAGTTATN ATTGCAAAGC ACTGTCACCG GCCTCAGGGA GTTTATGTGT AATAGAATTA 120
AAAATAATAG CTGTGTATAA CACTTAGCTC AAGCCACAAA 160

SEQ ID NO:7500

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08742

SEQUENCE DESCRIPTION:

GATCTTATTG TGGAGTTAAA CAAAGCACCC TTAAAGTAGC AAGCGAGCAA AATAAAAGCA 60
AGGAAAATCA GTTGAACAT AACTTATGTA TTTTITAGGA TTAAGAGTAA TTAACTGAG 120
TCAATTCAAT ATGTTTTTAA AGGTGTGATT CTAAATNCT TTATGATTGT TTAGATTCT 180
ATATCTTGGT AACATGAATA CACACTTAAA 210

SEQ ID NO:7501

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08743

SEQUENCE DESCRIPTION:

GATCAGCATT TGTATTTNAG TCCATTAATG GGAAAAATAG CTGATATTGT NCATAGGAAC 60
TTGGAAACCA CACAGGACTT AAGTCCCTTG TCTGTNTTGA TGGTCAACAT ATCTCCTTTA 120
ATATCAGGAC ATTTTCAACA ACANCTGGTG AACAAAACAG ANCTNCTTTT TGACACCATA 180
GATTCTCTG AGGTCAACGT TGCAAAANGC ATAGCAAAGT TNCTCCGAAA TGTTAGATAT 240
CGTTATCAAC CACTATTAGA CAGATGTAAT ACCGTATTTT TTCAGTAATG TGGNCCACCT 300
TGATTTTGGN TTCCATCAGT ANANGACTT AGTGATACA NNNACNAAAN N 351

SEQ ID NO:7502

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08744

SEQUENCE DESCRIPTION:

GATCGCACCA CTNCACTCCA GCCTAGGTGA CAGAGGGGAT GACAGAGGGT GCTCTGCGNN 60
CAGGGAAGGC GGGGTGGTTG GGGGGTAGAG AATGTTGCNC TNATAACCAC AGCTGTGGTT 120
ATTTNTGGC AGGTACAGGT NAGGTTCCCT CTCCTTTCCA CCAGATGGCA CTGGAGAAAA 180
GGGATTTNAN TTAAN 195

SEQ ID NO:7503

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08745

SEQUENCE DESCRIPTION:

GATCAGAGCA GAAATAAGTG AAATAGAGAC TAAAAAATAG AAAACATCAA TGAAACAAAG 60
AATTATTTT TAAAAAGATA AACTAAATTG ACAACCTTT AGCTAGACAA AGAAAAAGA 120
GATAAGACAC AGATAANTAA NTTCAGAGAT TAANAAGAAG CCATTATACC TGATACCACA 180
GAANTACAGA GANTCATAAG AGACANTTAT GTTGTGCACA TGTACCCTAG ANCTTAAAGT 240
ATAATANNCN NTANTTN 257

SEQ ID NO:7504

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08746

SEQUENCE DESCRIPTION:

GATCTTACAG AGAAAGACTA TGAAATACTT TTCAAATCTA TTAATGGAAT CCTTNCCCT 60
GGAGGAAGTG TTGACCTCAN ACGCTCAGAT TATGCTAAAG TGGCCAAAAT ATTNATAAC 120
TTGTCCATAC AGAGTTTGA TGATGGAGAC TATTNCCTG TGTGGGGCAC ATGCCTTGA 180
TTGAAGAGC TTCACTGCT GATTAGTGGA GAGTGCTTAT NAATTGCCAC AGATACTGTT 240
GACGTGGCAA TGCCGCTGAN CTTCACTGGA GGTCANTTGC ACAGCAGAAT GTNCCAGANT 300
TTCCCTACTG AGTTGTTGCT GTCATTAN 328

SEQ ID NO:7505

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08747

SEQUENCE DESCRIPTION:

GATCAATTG AAGTCCCTGT TTGGGAATAA GGCACCTATC AGCATGAAGA ATTTTCTC 60
ATTCTGTGCC ATTTAAAAA TAGAATACAT TTGTATATTA AA 102

SEQ ID NO:7506

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08748

SEQUENCE DESCRIPTION:

GATCACCTTC GNACGACTAC ATCGCCTGCT GCGTCAAAC T GAGGGCTCTT ACAGNCAGTT 60
TTCGAAGNCG GGGTACTGCT CAGCAAGGTG TTGTGAATTT CCCATATGAT GATTTCATTC 120
AATGTGTCAT GAGTGTTTAA ATCAAGAGGA AGCTGCATGA ATGTAATCAA CATTCCAACT 180
GGAGCTCTCC TTTGCTTGTC CTCTTTGCCT TCGGTAATAT GTATAAACTT ACATCACGAC 240
TTTCTCTTAA CAGCTGTTGT AAAGTTTATT ACTTTATGTA CAACTGAAGT TTTGTTTATG 300
TTTTGATAAT AAAATCTTTT GGAACCTTAA AAAAAAAAAA NGN 343

SEQ ID NO:7507

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08749

SEQUENCE DESCRIPTION:

GATCCAAGTG CTTNTTTGGT ACCAAGAGAC CCGGNTCTNT GCCAGCATAA ACCACTCACA 60
CCCCAGGGGG ATGAGCTCTC TNAGCCCAGG ATTCTGGCAA GGGAGGTGAA GAAAGTGGAT 120
GCGCAGAGTT CGGCTGGGGA AGAGGACGTG CTCCTGAGCA AAAGCCCATC CTCACTCAGC 180
GCTAACATCA TCAGCAGCCC GAAAGGTTCT CCTTCTTCAT CAAGAAAAAG TGGANCCNGC 240
TGTCCTTCCA GCAAAAACAG CAGCCCTNAA TAGCAGNCCN CGGTCTTTGG GGAGGNGCAA 300
AGGNAGGCTC CGGTTGCCCC AGATTGGCAG CANNATTATN AN 342

SEQ ID NO:7508

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08750

SEQUENCE DESCRIPTION:

GATCAAGCAA TTAATCTTCT GTAGAACCAA AATTNACTGT AATAACTTGG AGCAGTACTT 60
TATACAACAA GGAGGAGGAC CTGATAAAAA AGGACACCAG TNCTCATGTG TTTGTNTTCA 120
TGGTGACAGA AAGCCTCATG AGAGAAAGCA AAACCTTGGA AGATTTAAGA NAGGNGATGT 180
AAGATTCTNG ATTTGCACAG ATGTAGCTGC TAGAGGNATT GATATCCACG GTGTTCTCTA 240
TGTNATANNT GTCACCTCTG CCGATGAAAA GCAAACTNC GTACATCGAA TTGGCAGAGT 300
AGGGTGGAGC TGANGGATGG GTCTGGCAAT TNCCCTNGTG GCACCGAAAN NGGACAGGGT 360
TTNGTACCN 369

SEQ ID NO:7509

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08751

SEQUENCE DESCRIPTION:

GATCTGGCCA GAGGGGTGTT GGAGCCCAGC CCACCCACAT ACCAGTCAAG CTCTTAGGGG 60
 AGCAGAAGAA AAGCAGGAAG AATTTAAATG TTAAATTTT TTTNAAATT GACTTTNCTA 120
 GTTATTAATAA GTTGCTTGTT TCAGCAGTGN TATTGTATAA NGACCATCTT GTAAGNTACT 180
 CCTGACATCT TGCTTTAGCA CATGTACAGT ACAGTTNCTN TGATAATGTG TTGCCCTAA 240
 CTNCCCTGGC TTCNCCTCA GCCCATCCNC TCTCCTCTAG NGCAGTTGGG TTGGAGGCTC 300
 NTTGAGGCAA GCNGCANCAT TGGNGGGGGT GCAGN 335

SEQ ID NO:7510

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08752

SEQUENCE DESCRIPTION:

GATCCGACAC AGAAGACAGG AGGAACTNAG GCGACAGCAA GAGGGCTTTA AGCCAAACTA 60
 CATGGAAAT AGAAGACAGG AAATNAGAAT GGGTGATATG GGTCCCCGTG GAGCAATAAA 120
 CATGGGAGAT GCGTTTAGCC CAGNCCCTGC TGGTAACCAA GGTCTCCTC CAATGATGGG 180
 TATGANTATG AACANCAGNG CAACTNTACC TGGTCCACCA ATGGGTACTG GTNCTGCCAT 240
 GGGACCAGNA AGGNGCCGCA ANTNTNGGGN 270

SEQ ID NO:7511

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08753

SEQUENCE DESCRIPTION:

GATCCCAGGA GAATCAGAAA CTCACACATT TTGGAATCTT CAAGGGCACA TACTGAGAAA 60
 AAAAAATAAAA TTGTTTATGA GCAAA 85

SEQ ID NO:7512

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08754

SEQUENCE DESCRIPTION:

GATCAAACTA TACGCTGTCT ACAAGAGACA CTTTAGATT AAAGACACAA ATAGGTTGAA 60
 AGTAAA 66

SEQ ID NO:7513

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08755

SEQUENCE DESCRIPTION:

GATCTTTTGT ACTGAGGTTT TTAACACTTT ACTTGGGTTT ACCAAGCCTC AACTGGACAG 60

ACCATAAACA GTCCACAGGC ACCGTTCTCG CCAGGCCCA ACCCACAGGG AGTCTNTCCG 120
 CAGAGCCTTC TTGGTGTTC CTTAACTTGC CAGTGGCCTT TGCTCAGAGC CTCCTCCTGT 180
 GACATGTGAA CAATGAAGAG GCCTGCGCCT CCTGCCTTGC CGCCTGCAAA GCAAAGAAAC 240
 TGCCTTTNAT TTTTAACTT TAAAAAGTAG CCAGATTAGT ANCANGACTG GCTGGCTTGA 300
 TGAGCAAAGC CTTTGCTCTC ACGGNAGGAG GGTAGGGTTT NGGNTGTACA ATGGTAACTT 360
 GCNNTGGGNA CCTTAAAAAG GGAGGTGNAN 390

SEQ ID NO:7514

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08756

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGAGAGT TTGAGACCAA CCTGACCAAC ATGGAGAAAC CCCGTCACCTA 60
 CTAATAATAC AAAATTAGCT GGGCGTGGTG GCACATGCCT GTAATCCAC CTACTTGTGA 120
 GGCTGAGGCA GGAGAATCAC TCGAACTCAG GAGGCGGAGG TTGNAGTGAG CCACTGCACT 180
 GCCTGGGCAA CAGAGCGAGA CTCCATTCA AA 212

SEQ ID NO:7515

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08757

SEQUENCE DESCRIPTION:

GATCCACCCG NCTTGNCCCC CCCAAAGTGC TGGGATTACA GGTGTGAGCC ACTGTGCCCC 60
 GCCGAGTTAA ATATATTCT AACATAGTAA AAAAAAAG GTANGTTNCA TTAAATAAAT 120
 CCNGGAAGTN CAAATN 136

SEQ ID NO:7516

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08758

SEQUENCE DESCRIPTION:

GATCATGAAG ATGGACAGAA CAGACACTGT GGCAATAAGA TACCAAATTG TAAACAGGAC 60
 CTAAGGCCAT GCCAAGCAAG GGTAAAGTCA TGTAGAGCCC GCCTTCATGC CCCGCCTCCC 120
 CTGCCCCCAA CTTATGAATA AACTATGTTT TAACTGCAAA 160

SEQ ID NO:7517

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08759

SEQUENCE DESCRIPTION:

GATCTGGAAC TTGAAGATGC CATTATACA GCCATCTTAA CCCTAAAGGA AAGCTTTGAA 60

GGGCAAATGA CAGAGGATAA CATAGAAGTT GGAATCTGCA ATGAAGCTGG ATTTAGGAGG 120
 CTTACTCCAA CTGAAGTTAA GGATTACTTG GCTGCCATAG CATAACAATG AAGTGACTGA 180
 AAAATCCAGA ATTTAGATA ATCTATCTAC TTAANCATGT TTAAAGTATG TTTTGTTTTG 240
 CAGACTTTTT GCATACTTAT TTCTACATGG TTAAATCGA CTGTTTTTTA AAATGNCACT 300
 TATANNTCCN AATAANCTGT TAANCCNGGN ANANGGNNTT GTNTTNGTGN GGNTN 355

SEQ ID NO:7518

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08760

SEQUENCE DESCRIPTION:

GATCTTCATT TTCCTGTTCT GTATTCTGCT ATGAAGTTCT CTGTTTTTCA AATAAAATTT 60
 ATGTGTTAAA TAACAAA 77

SEQ ID NO:7519

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08761

SEQUENCE DESCRIPTION:

GATCATCTTG GAACTGCAAA 20

SEQ ID NO:7520

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08762

SEQUENCE DESCRIPTION:

GATCGGAGGC TGCAGTGTGA CAGTGCCAGC CAATGTGCAG AGGTGGATGA GGTCTTGTNA 60
 AAACCTGGCT CCTTTTAACA CGGCCCTCAA GTCCTTAAG TNAATTGCCG TAACTAATTT 120
 TAAAGGGTTT AGATTTTAAG AATGGTGCTC TTTCATGCCT ATNATCAGTA AGGGGACTTG 180
 TATTAGAGTC AGAGTCTTTT TATTTAGGCC AGTTGTCAAG TGTCAATAAA AGCATCATGT 240
 AATTAAA 247

SEQ ID NO:7521

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08763

SEQUENCE DESCRIPTION:

GATCTTAATA TTGACTAGTT TCACATCCAG GTTCTAAGA AATGATAAGA TACTTCACTT 60
 TTCCAGAGTG AAATGTAGGA GGGAGCACAT TCTAAGTACA GCTAAAAATT TAGCTCACTG 120
 TAACACAGTT TCACTCTCTG AATAAATAAA GCAAAAAACA CAAA 164

2153480

SEQ ID NO:7522

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08764

SEQUENCE DESCRIPTION:

GATCTGCCTG CGAAGCTCCC CACAACACTG TCCCTGGAGA CCACCCATGT GGCAGACACT 60
CAAAATCTGT TGTATTGCT AAATAAATTA ATATGGACAA GTTACCCAAA 110

SEQ ID NO:7523

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08765

SEQUENCE DESCRIPTION:

GATCAAATTG TTCATGCCTT GGGATTTTT CTTCTATAAT TTGGATATCT TTNTCCATTG 60
CTCATTTCTT TATTGAAGTT GCTTTCTTAA AAATTGATT AACTTTGTCC TTGGTATCTT 120
TAGTTCAGTC CAGAAATNAT TAATTGTGAT GTGATTAAAT TCATTTTTTG GTCTGGTGAA 180
A 181

SEQ ID NO:7524

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08766

SEQUENCE DESCRIPTION:

GATCTGAATG GTTTTAATAA GGGGCTTTCC CCCTNCTTCG CTCTGCACTT CTCCTTGCTG 60
CCATGCGANG AAGGATGTGT TTGCTTCCCC TTCTGCCATG ATTGTAAGTT TCCTGAGGCC 120
TCCCCAGCCA TGTTAAACTT TGAGTTAATT AAACCTCTTT CCTTTATAAA TTAAA 175

SEQ ID NO:7525

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08768

SEQUENCE DESCRIPTION:

GATCTGAAAA ATNCTTTTTG TCCTCATTGT TGCAGTTTCA ATTGTAATCC ATTGCATCTN 60
ATTTTCTTGG GTGTTGGCAC TGTAATATAT TAAAAAATAA TTCAGTGCTC AGTATTGTAA 120
CAACTGTCCC TACTGAATAT TCCTTTTCAT AAATACTTGC TACCACAGGG AAATTAAGTT 180
TTCATATAGA ATAAGTAGTT TCAGTAGTAA CCATTGAAGA NTAANCNTG TGGTTCANGG 240
CAGATATTTT TCTGGAAAGT TTTCTCTATT GTANAATTTG TNGTATATGG CTATGCTGAC 300
TATCNTGGAT NCTGTCATGG GACATGCATT ACCACANNTN CNNGCCCCTT TCTGTGGTNN 360
NN 362

SEQ ID NO:7526

02127

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08769

SEQUENCE DESCRIPTION:

GATCCCATGG ACATTGGGG AAAGGGCTCC TTGGGCTGCT GGTGAACTTC TGTGGCCACC 60
ACCTCCTGCT CCTGACCTCC CTGGGAGGGT GCTATCAGTT CTGTCCTGGC CCTTTCAGTT 120
TTATAAGTTG GTTTCAGCC CCCAGTGTCC TGACTTCTGT NTGCCACATG AGGAGGGAGG 180
CCCTGCCTGT GTGGGAGGGT GGTACTGTG GGTGGAATAG TGGAGGCCTT CAACTGATTA 240
GACAAGGCC GNCCACATCT TGGAGGGCAT CTGCCTTACT GATTAAATG TCAATGTGAA 300
TCTAAA 306

SEQ ID NO:7527

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08770

SEQUENCE DESCRIPTION:

GATCTTTTAG TTATCAAACT GTTAAATACA TTTAACTTT CAAATTTTAT GAATAAAGGA 60
GATGAATCCT GTTAAA 76

SEQ ID NO:7528

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08771

SEQUENCE DESCRIPTION:

GATCTGAAGT CTGATTGTGT GTACGTTGCG GCGTGCGTTA GTCCCTGCCA CGATTAAAGA 60
CTTAGACCGN CAAA 74

SEQ ID NO:7529

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08772

SEQUENCE DESCRIPTION:

GATCGCGCCA CTGCACTCCA GTCTGGTGAT AGAGCAAGAC TCCATCTCAA AAATAAAAAA 60
TAAATGTTG GNTGTGGGGA GCCAGGCCTC TCACAACTGA AA 102

SEQ ID NO:7530

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08773

SEQUENCE DESCRIPTION:

GATCGAATCC AGGCCCTGGG GCTTCANTTG CCAGACCCAC CATTAGAGAG TGAAGATGAA 60
 GATGAGGAGG GAGCTACAGC GTTGAACAAC CACAGCTCTA TTCCCATGGA CCCAGAACAT 120
 GTAGAGCTGG TGAAGAGGAC AATGGCTGGN GTAAGCCTGC CTGCGCCAGG GGTCCTGCC 180
 TGGGCTCGGG AGATATCGGA TGCCCACTGG GAAGATGTGG TACAGAAAGC CCTCCAAGCC 240
 CGGCAGGCAT CCCCTGCCTG GGAGTGACCA CAGTGAGAGC TGCCTTATAT TCCTACATTC 300
 CAGGCCAGAA CN 312

SEQ ID NO:7531

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08774

SEQUENCE DESCRIPTION:

GATCTGGACT GAGGACCCTG CTACTCCCCA AGCCAGAGCC CATCAGCCAG GCCTGCTGTG 60
 AGCCACCTGC CTGTGGAGTG CTGAGCTCAA CCAAAGGCTG GCAAGCTCTG GGCCTCATTT 120
 AAGGGATTCT GATGAGCCGA TGGGCCCTGG AGGCAGCCCA TTAAAGCATC TGGCTCGTTT 180
 TTGAAA 186

SEQ ID NO:7532

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08775

SEQUENCE DESCRIPTION:

GATCACATTG CCATTCTCTC CCTCCAGAGG TAACAATTAT CCACAATTG ATGTTTATCA 60
 TTCCTGTGTT GTTGACTTT CACTGTGTAT AACCTAANNC NTCTACTNTT TAGTACTGTT 120
 TTATATATTT TNAAGCCTCA TACTTGCTCA TTCTACAGCT TTTTCACTC ATTATTGTAT 180
 AATTATATCT GANGCNCTCG TTCATTAATT TTAGTCCNGT GTAGCAGAAT TCAATTACGG 240
 GAACTACCAT AATTATCTG TNCTCCAGTT GAAGGCATGA NGTTGTTGCC AGTTTCTGTA 300
 TTATAACCAC TGTAGTGGGA CCATTCTTCT GCNTTGGGCT CACTGCGGGT TACCNAAGNC 360
 GGTNCCNCAG GATAANCCCC ATTTGGGNTN 390

SEQ ID NO:7533

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08777

SEQUENCE DESCRIPTION:

GATCTAGCAT GTGGATTTTA AAAGATTTGC CCTCATTAAC AAGAATAACA TTAAAGGAG 60
 ATTGTTTCAA AATATTTTNN CAAATTGAGA TAAGGACAGA AAGATTGAGA AACATTGTAT 120
 ATTTNNCAAA ANCAAGATGT TTGTAGCTGT TTCAGAGAGA GTACGGTATA TTTTGGTAA 180
 TTTTNTCCAC TAGCAAATCT NGATTTNGTT TGATAGTGTG TGGAATTTNC TTTTGAGGGA 240
 TAAGACCATG GGANANTTGT GGTAAGACT GTTTGTNCCC TTCATGANTN CTTCTGAAGT 300
 TGCCNTCACT TTTNCTAATC TCCTGTGAAA TGCCTAGGTT TTGCGCCTGT CCCACTTTTT 360
 NTTTGTGGGN CTTATNTN 378

SEQ ID NO:7534

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08778

SEQUENCE DESCRIPTION:

GATCATTGA GTGAAAAAA GGTACCTGTN CAAGCAAGCT CCTGGACACC ACAAGAAGGA 60
GGAATTATTT TAAAAGCTGT ACTCTAAAT TGTNAGTATC TTAAAAATCA GTTGTGAACA 120
ATGAAGGATT TGAAAGAGCA TTGACTTTGC CACTTAAAAG TATTCTAAA ATAAA 175

SEQ ID NO:7535

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08779

SEQUENCE DESCRIPTION:

GATCAAGGTG AATTTTTTGT ATCACTGCCT GTGGAAATCT ATCCTCATCA GTNATTGCAT 60
TTTTCCCTGC CTATACCTGT GCTCCTTTTT NTNACTGTGT TTTCAGTCAC TTCCTTTCTG 120
TNAAGGTTG CTTAGCTTTT NTTTTNAANA TTTGTTGTN 159

SEQ ID NO:7536

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08780

SEQUENCE DESCRIPTION:

GATCCAAACC CACAGTNTTG TCCTGGAGGC AGCAGGGGTG AAGGTGGAGG GTCCAGGGCC 60
ATGAGGAGCC CCCTTGCCAT CAGAGCCTGG CCTAACCACC CTCTTCTCTA CTTACACACA 120
CATGCATTTT ATAATAGCTC TGACCCAACC TGGCCACTCT GCAGAGACTG GGACAGACAG 180
GTGCAGGCAA TGGGCCCTCC CACACCCAGT CACCTACAAG GAATTTTCAA ATCCACTTTT 240
AAAACAGAAA CCGGTAAATG CGCCGTATTG TATATTTTAT TTAAATAAAA AAAATTCCAG 300
CAAA 304

SEQ ID NO:7537

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08781

SEQUENCE DESCRIPTION:

GATCCACCCT TCCTGGGCCT CCCAAAGTGC CGGGTATTAC AGTCATAAGC CACCACACCC 60
GGCCTAACAT GCATTTTTTT AATTCAATAA ATATTTATTG AGCACCTAAA 110

SEQ ID NO:7538

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08782

SEQUENCE DESCRIPTION:

GATCCCCTCC CCTCCTGCTT TTCTGTATTT TTTAAAAATT ATTTTGTTTT TAATTCACAA 60
ATATTGTATA TGTTATATGG GGTAGAATGT GATGTTGATA TATGTTTAAA ATGTGGAATG 120
ATTAAATCAG GCTAATTTAC TTTTTTNCC NAAAAGGAAA 160

SEQ ID NO:7539

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08783

SEQUENCE DESCRIPTION:

GATCCACCCA GTTGCTCAAG TAAAAACCT GAGAGACACC TTACGCCATC TGGGAACCTG 60
TTAGAAATTC TTAAACCTCA TTCTATACCT GCTAAATCAG AAAATGTAGG GATTAAGTCT 120
GATTATTTGT GTTTTCGCAA GTCATCCNGG TGATTCTGAT GCATGGAAAG TTTGAGAACC 180
ACTGGTTTAG GTTATTAATAA GTTCTTGTCT CCCTATAAA 219

SEQ ID NO:7540

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08785

SEQUENCE DESCRIPTION:

GATCAGAGAA GACTTTAAAA CTCTTGACTT AATTGAGTAA ACTCTTCATG CCATATACAT 60
CATTTTCATT ATGTTAAAGG TAAATATGC TTTGTNACT CAGATGCTG TAGCCAGGAA 120
GCCAGGGTGT GTAAATCCAA AATCTATGCA GGAAATGCCG AGAATAGAAA ATATGTCACT 180
TGAAATCCTA AGTAGTTTTG ANTTTCTTTG ACTTGAATCT TACTCATCAG TAAGAGAACT 240
CTTGGTGTCT GTCAGGTTTT ATGTGGTCTG TAAAGTNAGG GGTCTGTTT TNGTTTCCTT 300
ATTTTGAGGT AAGAGTACTG CTNGGTGGTC GGGGGGGTTA TATNNTNCCC TTTTN 355

SEQ ID NO:7541

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08786

SEQUENCE DESCRIPTION:

GATCAGGTTT CCCCTCAGAA CCTGTGTTGC CTGCCTGCTG TATCTTCCAT GTCTTTCTTA 60
TTCAACTTCT AGAAGTAGAG AAGGTTGGGA CTTGAGTGTA GAAGAAACAT CAGAATAATT 120
TCAAAAAACA GGAAGTTGGA ACTATAATTT TTAAATTATT GTATTGTTTT TACGGATTTT 180
ACATGTATAG TTAAATATTA ANNTTCATCT CTTGCAGTTC ANTAAGCT ATAGTATAGA 240
TTTTATTTTT AAGAAGTTTA TATAATNCTT TTGTGAGCCA ATATGTAAAA CTNGAATATT 300
TATTANCCT ANTN 314

SEQ ID NO:7542

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08787

SEQUENCE DESCRIPTION:

GATCACAGAG AAAGTGATTA CAGACATTGC TGGGGTAATA CCAGCTGAGA AAATTGATGG 60
 AGTATTTNCT GCCTGTNAGA GTGGCTCTTT TGACAAACTA GANGCTGTGG TCAAGGATTT 120
 AATAGATGAG GGTGATGCAG CAACTCAGCT CGTCAATCAN CTCCATGATG TGGTTGTAGA 180
 AAATANCTTA TCTGATAANC AGAAGTCTNT TATCNCAGAA AACCTTGCCG AGGTTGCCAA 240
 ANGCCCTGGCA GATGGTNCTG TTGTCCATTT GCANCTCATC NGCCTTTTNG CCCTGNGN 298

SEQ ID NO:7543

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08788

SEQUENCE DESCRIPTION:

GATCAAAATT AAAGACAGTT AAAAAGGTGA AA

32

SEQ ID NO:7544

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08789

SEQUENCE DESCRIPTION:

GATCATCATT TATTGCATCT CATAACTAAA TTTNNTAAAG TTTGGATTGG GACTTTTNAG 60
 GTCCTTTTGG GAGGGCAAAG GAAGTGCCAG CTTCTNTGGG GAAGTTGTTT TTAAATCCAA 120
 AGACTTGAAC CACATTCCCT GCACATGANC ATGTTTGCTT TTATCCCTTC TCTCATTGTN 180
 TCCTACCCAT CTTAGTACCA TTGTGGTTAT AANCATCTGC ATTTNTNAGA AGCATTTNAC 240
 CCATTNNN 249

SEQ ID NO:7545

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08790

SEQUENCE DESCRIPTION:

GATCATATGG AATGTAATAT TTTGTAATGT CTTTTTTCAT TTTACAATGT ATTATCAACC 60
 TTTTCCCTCT CAAAATACA TTGTGAATGA CTGCATAGTA TTCACCTTAT GANTATTTAA 120
 TTCATTTTAC AGTCTTCTAT TGTNGGACCA CTNACATTGT ACCAAATGTT TTCCTTTGGT 180
 TTATTCTTTA ATGTATTAGT ATTTTACTGC TGGTCACTCA TGGAAATCCTG CAGCTTTTANT 240
 NAAAAGCAAG GATGAAA 257

SEQ ID NO:7546

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08791

SEQUENCE DESCRIPTION:

GATCGTGCCA CTGCACTCCA GCCTGGGCGT TGCAGTGAGA CTCGGTCTCA ACAACAACAA 60
AAAGGTGGAT ACATGTCAAA AGGGCACAGG AGCCACTTGA AGGATTATAC TTGCTAAATC 120
TGTGTCAATT ATCAAAATAA ACTGGTAGCA ACGTTAAA 158

SEQ ID NO:7547

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08792

SEQUENCE DESCRIPTION:

GATCAAAGGG ATGAGCAACA GGGACTTCTG CCACAGTGAC AATGGAATTG TGTGTGCCT 60
TACTTCAGAG GTGGTCTCTN CTTTCTTGTA ATAAAAGCAA TATTTATGCG GAAAGCAAGC 120
AGCTCAAA 128

SEQ ID NO:7548

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08793

SEQUENCE DESCRIPTION:

GATCACATCA AGCTAAAAAA CTTCTACACA GCGAAGGAAA CAAAGTGAAC AGAATAACAT 60
GGGAATGTTT TCTGTAATTT AGTAGTAAGT GGCAATAGTT TACAAACACA TTTTGTGTAT 120
ACTGCTGTCA TTGCACTGNT TACCTTCTGT TGTAAGTACT TTGTTCTATT AGTCCACTCA 180
ATTAAATAT TTGGTTTTGT TTAAA 205

SEQ ID NO:7549

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08794

SEQUENCE DESCRIPTION:

GATCTTATTT TTAATGTAGT GAGGATATTA TTTAACTTT TATTTTAACT GGAAATGTCC 60
TGAAACACAT ATTTAAATA TTGGGATACA GTGAAAGAAA AATTCAAATT TTAATAACAT 120
AAAGATTTCC TAACTTTATG TTATTGANCA CTTACTCACT AGAAGTGAGT TCTTTAGAAA 180
ANTACAGTGA AGGACTCAGT TCAGTCTTGT TTTTATCAGA GTGATAATCA TCCTGTTTCA 240
CATCCCAATA CTATTTTGAN ATTCTAAACA ATGGAACCCA AANTNCCAAT AANTATAAGG 300
TTATGCCTTC AATATATTCC TATACANTTC TGTAAACCATG GTTTANNATA CACAAGCTTA 360
NNATACCATG GN 372

SEQ ID NO:7550

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08795

SEQUENCE DESCRIPTION:

GATCCGGTNG TCTAAATGCA TTCATATTTT TATGATTGTT TTGTAAATAT CTTTGTATAT 60
TTTTCTGCAA TAAATAAATA TAAAAAATTT AGAGAAA 97

SEQ ID NO:7551

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08796

SEQUENCE DESCRIPTION:

GATCTGGGTT TGGCATTAGA AGTATTTTCAT AATTTTGGTT TTTNATTTAG GTTTCCTCAA 60
CATCTGTAAA GTGATTGATT AAATTAGAGG AGGCGTGTAG AATAAATCCC AATCCCATTG 120
CAACTGGCAG AGCATTATAA NTNTTTATAA ATNCAGTTAC AACAAAGGAG AGGNTCTACA 180
TTCTTCAAAA AANAAANTTG GCTTACCTGT TTCANCTTN GGTGGCATT NNCTGCCATT 240
NGTN 244

SEQ ID NO:7552

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08797

SEQUENCE DESCRIPTION:

GATCTGGGAA TTACCCATCA TCATTAAGCA ATGAAACAGA CCGGCTGGTG CACTGGTGCC 60
ACGGCGCCCC GGGGGTCATC CACATGCTCA TGCAGGCGTA CAAGGTCTTT AAGGAGGAGA 120
AGTACTTGAA AGAGGCCATG GAGTGTAGCG ATGTGATTG GCAGCGAGGT TTGCTGCCGA 180
AGGGCTACGG GATATGCCAT GGGACTGCTG GCAACGGCTA TTCCTTCCTG TCCCTTTACC 240
GTCTCACGCA GGATAAGAAG TACCTCTACC GAGCTTGCAA GTTGCAGAG TGGTGTCTAG 300
ATTACGGAGC ACACGGGTGC CGCATTCTCTG ACAGACCCTA TTCGCTCTTT GAAGGCATGG 360
CNAN 364

SEQ ID NO:7553

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08798

SEQUENCE DESCRIPTION:

GATCTGTGTG TCTCTGTTT GAGTTTTTCC TGTTTATTTT GAAAAGTACT GTTGGTCAAG 60
ATAATTGGTC AATAATCCAT GTTGGTTTTA ACAAAAAGCA TTTTAACATT AAAAATATTA 120
CAGTATAAA 129

SEQ ID NO:7554

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08799

SEQUENCE DESCRIPTION:

```
GATCACATTT TNATTTTTN TTCTCCACAT CAGGATAGTT TACTGAAGCA CAATCTCTTA 60
TACTAGTGGG AAAAAAGGGA GAAAAAGGAA GCAAGATAAA TGGGTATGTA GGATGAAGGG 120
TTATTTAAAA TGGAATAAAA GATAGAAGGA GGAAGTATAGG AAGANATGGA ATNNTTTANN 180
TNTGAGGAAA GATATCTNTG GTAGACATGT CCTTCCATGA CTAATTTCTA ATTGTNACTC 240
ANCACACATT GAGGTATGGN CCCTCCTCAG TGACTTTNAC TAGCTCAGAN ACGTACTCCC 300
CCACCANCCC CACCTN 316
```

SEQ ID NO:7555

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08800

SEQUENCE DESCRIPTION:

```
GATCAGTGGA ATTCTTGGTT TGATGATAAC CTTATTAATT GAAATNTTTT ACTGATGTGG 60
CTTTAAAGA GGTATTATNT GTATATGTTT AGAACTCTCT GATTTTNATG AATTATATGG 120
GAATGAGAAA CAGAAGAAGT GGTATTNCT GCGAGTTAA ATAGGCAAGG TACCCAGTGA 180
TAACACCAAC CAAACCACTC CTATCTGCAT GATTCTGAAC ATCTGGATGC CTGTGGTTTT 240
ACTGTGTATA TNTNATTTTT AATATATTAC CTTTGTGGAT NCATTTAAGG TCTACTCAA 300
NGTANCACTG TCAAACCAC TAATATGTAT GTNAAANTTG TNCTGTNTAC TACATTACNG 360
TNCAN 365
```

SEQ ID NO:7556

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08801

SEQUENCE DESCRIPTION:

```
GATCTTGAGT AACTGAACCT ATTTCCCTTA AGGTATAAAA ATTAAATAA CCTGTATATA 60
TTTGNTAACA NCTTTATNAG GGAGGTAAGT NACTTACAAT ACATTGCACA TATTTAANGT 120
ATAGANTTCG ACGAGTTTTG ATGTATGTTT GCACCTGTGA AACCATCACA ACAAACAGTG 180
AGCATATCTN TCACCCCTAA NNGTTTCCTC CTGTCCCTTG GTAATCCCTC TNTTACCTGT 240
CCCACTTCTG TTCTCAAGA NCCAATTACC TGCTTTNNTN ACTGTTAATG TACGTGAGTT 300
TACATTTTTG AGAGTTTTAT CCAAAGGGNA TCATGANGTA TGTNCTCTN 349
```

SEQ ID NO:7557

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08802

SEQUENCE DESCRIPTION:

GATCTNATCA ATCTAGCGGG AGAGACAGGA TAACCTGTCC GAAAGTATAG CGCCACTATN 60
 ACTCCGCCGG AAAAATTACT TTAATAATCG CCAAAAATTA CTTGGAGCAA AGGGCAGTCG 120
 GCGGANTTCG CCAAGGCTGG CGCAGTCGGT TTTNACCTGT AGCAGAGAAC CNGGNCCTGA 180
 GAACAGCCTC ACTTCTTTNA TTGANTACTT ACATAATGCA TTGGAACATG ACATGAGATT 240
 AAGGTTTAAT AATGATAGAN TGAAGACCAC AATAAAGAG ACCTCTACTT AGCTCAGCAA 300
 TTCTTACCTT TCTTACCTAT TTGATGGAGG NTGTCTTTTG ANAGGTGTNC TGCAGGGNCC 360
 AAANTGTTN 369

SEQ ID NO:7558

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08803

SEQUENCE DESCRIPTION:

GATCTTGAT GCCAACTTT AATCTGCTTT TATGTTTTCA GGCTGAAGGT GTGAAAATCC 60
 TAAGAGGATT TCATATTGAA TATGTGTACA CAATCTTAAC TATCGTGGTG GAAAACATAC 120
 TACTATAATT NATTATTATA TCTNCCAGAT AATGTTATTC ATTTAGAACA AATAAGGTAT 180
 ATTTNTNAGA ATCANCTTTG TAAGCACTAT AANNNCTTTN ATAAGTTATA AGGTCTATGA 240
 TGTGTTTACT TTAANNCTTG CTGTTAANAG CAACACGTAT TANNTATGTN 290

SEQ ID NO:7559

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08804

SEQUENCE DESCRIPTION:

GATCTGGATA AATTTTCATT TCTACTTAAT TAAAACTTCC TATGTAAAAT CAAA 55

SEQ ID NO:7560

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08805

SEQUENCE DESCRIPTION:

GATCCCGAAT CCCAGAAATA ATTCATAGNG CACCTATCAT GACTATTTAT TTAATCTCAG 60
 AAGCTGAATC TGTACGTATT TTTCTCCAGG TCATCAGCTT TGGGNNNNN 109

SEQ ID NO:7561

LENGTH:40

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08807

SEQUENCE DESCRIPTION:

GATCCTACTC TCTTATTAAT ATCTTGAGTT TATGTTCAAA 40

SEQ ID NO:7562

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08808

SEQUENCE DESCRIPTION:

```
GATCTGCCGA CCTCGGCTC CCAAAGTGCT AGGATTACAG GTGTGAGCCA CCGCGCCCAG 60
CCATACTTT NCTCTTTCT CCATTAGCTA AAAGATAATA GTAAAACGTA TATTGAACA 120
CTTAATTTTC TCTATATATC TTTNAGGAT TATATTAGT GTATTCCCA ATTTTCCTAA 180
AATGATTATC ACTTCTGTAA AGAAGAAAAC AATACTACTG GTATTGCATT TGGAAATATT 240
TTNCTATTAA NNTGTCTCAT TTCCTTNCA TGTATGCACA TACATGTNNT TNGTATAGCT 300
CCTTNNTCA AAANNTATTC TGNGGTTATT ATTTANNN 338
```

SEQ ID NO:7563

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08809

SEQUENCE DESCRIPTION:

```
GATCTTGTGG TCAAGAGCAA TCTGAATCCA AATGCAAAGN AGTTGTCCC TGGGGTGAAG 60
TACGGAAATA TTAAAGTAGA CGGGGCCCTC TTTGGTGGA TGTAACACAA TTNCCACACT 120
GTGAAGGCAG TATTAGAAGA CTAAATTGTA AAANCNCTCT TGCACTGTG TTACACTTAT 180
GCATTGCCAA AGTTTTNTN AGTCTGCAT GCTTAATAAA NGTNCAGAGA CTGTTACTAA 240
GTAAAANGCT GTCAANCATT TCCTGANAAT AGANTTGGCC CCATGGCTTG ATGTGAAGAC 300
AGCAAGGNAA GANGCACCAG TCAAGTTGTG ANCAAGNN 338
```

SEQ ID NO:7564

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08810

SEQUENCE DESCRIPTION:

```
GATCCCTGCC ACAAGTTCTT TGGGCAGTGG CCATGTCACC ATTGAGATGA AGATATACAA 60
CAGAAAATAG TGGCTGTGTT TGGAAGCTTC AGCCCTGCAC ATTTGAACTA GTCACCTCTC 120
CAGACTTGCG TGGGTCAGTT CTTCTGAGT AGAGGACTTG CTGGTAAAGG GGCAGATGCT 180
TTTTATTAGT ACTGATAAAA CAAACTGAGG GAAACATCCC TCTTAGCTGG GAAACTTTTA 240
CTCTTCAGGA GCTTGGCATC ATGGACTGTT AATGTATGTG ATTTTCCCC TATTTCTCT 300
CTCCAAAATG ATAAAAACAA TAAN 324
```

SEQ ID NO:7565

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08811

SEQUENCE DESCRIPTION:

GATCCCACTA CGAAACGCTC CAGAGGCTTC GGTTCGTCA CGTTCGCAGA CCCAGCAAGT 60
 GTAGATAAAG TATTAGGTCA GCCCCACCAT GAGTTAGATT CCAAGACGAT TGACCCCAAA 120
 GTTGCAATTC CTCGTCGAGC GCAACCCAAG GTGTTCTAGC TGAGCGTTTA AGAGCATGGA 180
 CTCTGGAACC AGACTTTGAA TCCTTGCTCT GCCACTGCAG CTGTGTGACC TTGAGCAAGC 240
 TATCTAAATA TTCTGTGCCT TTGTTTGTG ATCTGTACAA TGGAGATGAT GATGGTATCA 300
 CCTTCATGGG GTTGTGAN 318

SEQ ID NO:7566

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08812

SEQUENCE DESCRIPTION:

GATCTGAGAC TCAGGAACCT TGGCCCCCTT GTCATTACA ACTGTGTGTG AACAGGACTA 60
 ACAGTTTGA CTGAGAGCAC TGANGCTGCT GTGTGTTGT CATATAACT AATGCTGTGT 120
 GTTGTGGCTT GCACTGCTGT GGGGGCGGG AGGGCAGTGG TGGGAATGG CTGGCATGAA 180
 GCTTGCTGA GCCAATGCTA TGCTTGCTGG GCTTTGGCTG ACTGGCTTTG GGCCACCAAC 240
 TGTATTGCA TAGTGATGGC TTGGAAGTGT CCATAGAAGG GATTGCAATA AAGGTGTGTC 300
 TTCCTTCTAA AAA 313

SEQ ID NO:7567

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08813

SEQUENCE DESCRIPTION:

GATCTTGAGT CAGAGAGGAT TGGAAGTGCT TTCTCCTCCA CCCAGGTGAG GTCAGGGGAG 60
 CTTAGGTCTT AGGGAGATGG CAAGTTGAGG TATGAAGGGA AGCTGGGGCT TTTGGAGCTG 120
 CCGAACAACT GAGGGACCCA GTGCGCCTTC CATCCCGCAC TAGTGAATAG CGCCCCCTCT 180
 TCCCCCGAAA ACGAGGTGCG AGAGGAACAA TTCCACGCT GGGGAAGGAC TTGTCTCCTT 240
 TTCTGTGAAA ATGCTTTGTA AAAAGTTGTT ATTGTTTGA TAGAGCAGAT TCTTGAGAAA 300
 AACTGTTTTG GACCAN 316

SEQ ID NO:7568

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08814

SEQUENCE DESCRIPTION:

GATCCCCGTC TGCTGACCAG CTAAACACCA ATTTCTTCCT GCTTTTCTCC ACTTGGTTTG 60
 GAAAATCACA CAGTTTTAG GCTCCATCTG TTTGGAGAAA ATACATTCTG AAGCATCCCC 120
 AATTCACCTT CTAAAACTC ATGTGCAGGT TTGATAACA CCAGAACAGA AGACAGTGAT 180
 GCTGTATTAT TTTAGATTTA TTACATAGAT TTGGAATTCA CTTTTTCAT GACCTAGAAA 240
 AAAACATTCC AGTGTTTANC TGTNTNTAT TATTANGGGG CTTTNNATTT GTGAATTCT 300
 GANGGCATGA GTGTTN 316

SEQ ID NO:7569

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08815

SEQUENCE DESCRIPTION:

GATCTGGTGT ACCAGGCGAA GTGGTCCGAG CAGGCTGAGC GATACGACGA AATGGTGGAG 60
TCAATNAAGA AAGTAGCAGG GATGGATGTG GAGCTGACAG TTGAAGAAAG AAACCTCCTA 120
TCTNTTGCAT ATAAGANTGT NATTTGNGCT AGNNGAGCCT CCTGGAGAAT AATCAGCAGC 180
ATTGANCAGA ANGAAGAAAN CAAGGGAGGA GAAGACAAGC TAAANN 226

SEQ ID NO:7570

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08816

SEQUENCE DESCRIPTION:

GATCAAGAGT TAAATAAAAA GCCCCAGGAC GAAACAAGAN GAGAGCACTT CATGCCCTGT 60
GGTACAAAAA AGAGCAGCTC TACTTAATGC AATTCTTCAT TCAGCATATA GCGAGACATT 120
TCTCCTGCCT CATTTGAAAG ACATCCCAGC ACAGCATATC ACGCTGTTTC TTAAGTATTT 180
GTATNNNNNN GTACCTGAAG TGTCGCGAAA ATNCTACTAT GACTCTNCCT GGAATACACC 240
CACCTACCTT GANCCAGATT ATGGATTGGN TATGTCTACT TCTGGATGCA AATTTNCTG 300
TTGTTN 306

SEQ ID NO:7571

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08817

SEQUENCE DESCRIPTION:

GATCCTGCGA GGGTGTCTATA ATACCTTGCT TTTCCATGCT TCCTGTATAT TTATCCATTT 60
CAGCACATCT GCAGTAGCAA TAACTNCTNA TTTNTAAATT TNCTTTTGTT GGGGGAGACA 120
GGCTTATGGC TGTCTGAGCA GCTGCTGTAG TGTAAGCAGT GAGGTTAGCA GTGGTTGTNA 180
GATTTNCTCA TTCCTGAGCA CCATGCTGTT GTGTCAGCAG TTGTAATGGA CTGTGTGGGC 240
ATACTTCCAG TAGGTGATGC TTGCAAGTAN GANCCAGCTG CAGTGGTAGC AGTAGGGTTT 300
GTAN 304

SEQ ID NO:7572

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08818

SEQUENCE DESCRIPTION:

GATCTGTACA AATAAAATNC CAAGTCCAAA

30

2153480

SEQ ID NO:7573

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08819

SEQUENCE DESCRIPTION:

GATCATCTCT CCTTGGGTTT TNNTTTAAAA AGGGGAATCT NCTATAAAGG TTCTNTTGCT 60
TCAAACCAAT GTCAAATAGA CTTNATTTTA AGAGTCATGG AATTACAGTG CAACCTTN 118

SEQ ID NO:7574

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08820

SEQUENCE DESCRIPTION:

GATCTACCTA TACAGTCCTA CATTAGCTTC TAAATATTT GTCAGGAGGG AAA 53

SEQ ID NO:7575

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08821

SEQUENCE DESCRIPTION:

GATCCCGAGG CTTTGTCTTC CTCTCGTCAG TTCTTTTGGT TGTGTTTTTT GTTTTNTTT 60
NAANAACCTCA AAAAAAAAAAN AAAAGACTTG GAGGAAGGGA AA 102

SEQ ID NO:7576

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08822

SEQUENCE DESCRIPTION:

GATCCTACTG ACAGCCATCG TGCAGGTGCT CAGCTGCTTC TNTCTCTATG TCTGGTCCTT 60
CTGGCTTCTG GCTCCAGGCC GGGCCCTTNA CCTCCTGTGG GTGAATGTNC TGGGCCCTG 120
GTTCACTGCA GACAGTGGCA CCCAGCACC AGAGCACAAT GAGAAACGGC AGCGCCGACA 180
GGAGCGGCGG CAGATGAAGC GGTATAGCC ATGANATTG TGGCCACAGG CCACTGGGCC 240
CTGGGTGGCT CTGTNAGGGT GCACAGCCCC TCATGCCTGG AGCAATGAGG GTCTAGTCCA 300
GGGGCCAAAA GCAGTCTTGA GGGTATTGGG GTATACTTAT ACTCTATAGG GGTGTTTGA 360
AN 362

SEQ ID NO:7577

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

02140

CLONE:HUMGS08823

SEQUENCE DESCRIPTION:

GATCACTCAT ATAACATGTC ATTTTTTTGG TTCTGTTTGG GTTTGGTTTT TGCCAATNAT 60
 TTTGTTATAT TTCCAAAAAA CTAAATAAAA ATNATTTTAA TTTTNNAAA 109

SEQ ID NO:7578

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08824

SEQUENCE DESCRIPTION:

GATCTTCACG GGGCTATTAT TTCAGTGACA AAATCCAAAT GCCCCTCTTA TGTGGGTATT 60
 ACAGGAATCC TTCTACAGGA AACAAAGCAC ATTTTCAAAA TTATCACCAA AGAAGACCGC 120
 CTGAAAGTTA TCCCAAGCT AAAGTGGTG TTCAGTGTGG AAACCGATGG CTTTATTTC 180
 TACATTTACG GGAGCAAATT CCAGCTTCGG TCAAGTGAAC GGTCTGCGAA GAAGTCAAA 240
 GCGAAGGGNN CGATTGACCT GTGANTTCTT TGCCGTCTAA GGCAGTTGTT TATGACAGCT 300
 GAAAAGTGA CACTCCCTAA NTGTCCACCT TTCAGTGAAG NGATAGTTAA GCCAATTCN 360
 N 361

SEQ ID NO:7579

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08825

SEQUENCE DESCRIPTION:

GATCCAATTC GTGCTGTGG ATGCTGCAAG GACTGGCTCA TTGGAGCCAA ACCATGTGGC 60
 GGAAACTCCT GAAATTGGTG GAAAAAGTGG AATATGGCAG ATTGGGTAGG TAGGAGAACA 120
 ATTTTGGAGA TTTTITTTCT TATGTAAAG TGTCTGCATT TTATTTGCTG TACCCTGCCT 180
 ACTCTGTTTT TNAGGATTTT TTGACTTCTT CGAAAAGCAC TGAATAATCT CTTNCCGGG 240
 TCTAGATTTT TTGATGAGTA CTGTGTAAAA TTGTCAATAT TCAATGGATT ATTTAATAAT 300
 ANNTTAAGAN TTCCAATCAT AAN 323

SEQ ID NO:7580

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08826

SEQUENCE DESCRIPTION:

GATCCTAAGT TAAGACTCTC CAAAGCAAAC ANTTGGTTTA AATCATTTAT CTGATGTAGA 60
 TAAAAGGTAG AGAACTTGT AGTGTTCTCC ACATAATGGA AAATGTACAA ATGCCTAGTT 120
 GTGTTGCCCA TCAATTTTGT ATATNTCCAT AATTTTNATT GTTGANAATT GCATTATNTT 180
 TTN 183

SEQ ID NO:7581

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08827

SEQUENCE DESCRIPTION:

```
GATCCACCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCAGGAGCCA CCGCGCCTGG 60
GCCTTTTTTT AAGTTTAAAG NNCCNATAAA GNCACTGAAA GGTGATGTGT GTGGATGAGC 120
TAGGAAGACC TGAATAGGC TCTCTCTAAA TTAATCAAAT TAATCCTGAA GCCATTCTGC 180
AATACTGTCT TTAATGTATA CTCAC TTGTT ATAGAAGCCA GGGTTTTTNC CCCTAATTG 240
TATCATTGCT ATATGTGTTA TTGTACCAAA CTACACTGTT TTAATTGCTG TAAATTTTAA 300
TATGTCTTAG TATCTGGGTG TGGGAATCTT GANAGCATGG AGTTTGTGTN 350
```

SEQ ID NO:7582

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08828

SEQUENCE DESCRIPTION:

```
GATCCTTGGG AGAGCTATCA CGGGAATCCA GGC GTTCACG GCCAGCAAAGT GAGCCGCTCC 60
ATCAGGGGCC CGAAACTNTC AAGCCCCTTT NTGGAGAGNT GCCTGGCTGG ACCGTAGAGC 120
GCTGTGCTCT GAGCTTAGAA AGGGAGGTGG CGGATGGAGT GGGAAAGTGAG AGACACTGAT 180
TTTNAATAT CAAAATTTCC CTTCTGAAAGT CGTTCAGATG TTTTCCTTAA AAAGAAGATG 240
GAATTCTCTG TAGAGCGTCT CANTCCACTT TTAACCATGG NTGAGAGCAG ACTCCATTTA 300
CCNTGAAATA GCAGCTTCTT TTGAGGGGAG AGTGACATGG AAGCAACN 348
```

SEQ ID NO:7583

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08829

SEQUENCE DESCRIPTION:

```
GATCTGCAGG TTTGGGCATA TGCTTTCATC ATTAAATTAT CTGATAAAGT TACAAGTCAC 60
AAAGGAGAAT GAGAACTTAA TGATTCTATT GGATTTAATA TATTAGCAAG AAANCATACT 120
ATTNCATAT GTNTAGCTTA GTAAGGCATT ANCATAAGTN CAANACCTAT GANACAGATG 180
CNTATTTCTT CAACATACTG TGTCAGGTAT ACTGTTTTAT ANTNGGTTG TTTTAGCCTT 240
ATTGCACACC NNCTCCCN 258
```

SEQ ID NO:7584

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08830

SEQUENCE DESCRIPTION:

```
GATCCATTTC ATTACAAGTA AAATATTACA AAATATTTAC AGGAAAATAT TAAAAATAAC 60
TCAACACAAA AAGGCAAGAT GAAATAAACT GTTTTTTTT CTCCAGAAAT CTCTACTCCA 120
GTGCCACAG CACACAAGAG TCAAAACAAA TAAGCAACTA AGNTCCTTAC GGAAAAGGNA 180
```

CAGNTTGTTC CTAAACCAGA AGAGGAGGTT GCCCAGAAGA AAAAGATATC CCGGAGGAAC 240
CTGAGGANCC NAAACTTTTT GCCCGGGGG TAATTCNGNC TTTNNATTAA TTTTNTTAN 300
NGGGNNNN 308

SEQ ID NO:7585

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08831

SEQUENCE DESCRIPTION:

GATCTCTTAT CATAATAAAG AATCTTTGTC ATCAAA 36

SEQ ID NO:7586

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08832

SEQUENCE DESCRIPTION:

GATCTAAGGA GGCCAGTGAA TTTCAAACAG GATTAAAAAG AAAAAAACA GAGTTAGGTA 60
TCAAATTAAG AATACTGAAA GCAAAGATAT AANTAGAACT TTAAAGCAG CCAGAAAAAC 120
AAACATATTA CATATAGGGC AGCAACANTA AGANTAACCG CTAACCTTTG ATTAANNGTA 180
ATATAATTCA CAATACANTG TAACANCANT TTTNNGTGCT AACNGGN 227

SEQ ID NO:7587

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08833

SEQUENCE DESCRIPTION:

GATCTATTGA GAATGGAATT GTTTTCTTAA TTTCATTTTC AAATTGTTG TTGCTAGCAT 60
ATAGAAATAC AAGTGATTTT NTATATTGCT CTTGTATCCT GTGACTTTGC TGAGCTTATT 120
TTAGTAGTTT TTTTCACTG AATCCTTAG GATTTTNTAC ATAAAAAATT CATATCATCT 180
GTGAATAAAG ACAGTTTTAT TTCTNAATTT TTAAG 215

SEQ ID NO:7588

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08834

SEQUENCE DESCRIPTION:

GATCATATTT TTAAATAAAG CATTTTTTGT AGAAAGTGCT AAA 43

SEQ ID NO:7589

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08835

SEQUENCE DESCRIPTION:

GATCAGGATA ACCAGGATGA TAGCAGTGAC GATGGATTCC TCGCTGATGA CAACTGCAGT 60
 TCAGAAATAG GACAGTGGCA TATAAGCCT ACTATCTGTA AACACCTTG TATCCTACTT 120
 ATGGNCTCAC TCCGAGGCCC TTCTCGGTCA AATGTTGTCA AAATTTTAAG AGAGTATTTA 180
 GANGTGGAAT GGAAGTTAA AANAGGAAGC NNNAGANGTT TTTCCAAAGA GAAAAGAAAG 240
 CATAAGGNCA CTTACTCAAC AGANGCACCT TTAGGCGGNG GANCAGNACA TTGTGTCAAT 300
 AGTNTCTCNG GTTGGCCCTT TCTNTTACTT GTCN 334

SEQ ID NO:7590

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08836

SEQUENCE DESCRIPTION:

GATCAAATTT AAAATCAGT TTAAAAGTG GTTCCCGACT TCTTTCCTTT GGAAGAATTT 60
 GGNCTNATGC TCATAAGCAG TTCATGAGTG ACAAGTGTAG CAAAAGCCAG CCATATATTT 120
 CNAGANTCTA TATCCTCAGG AAATGGTCCT TTTTTCCT ATAANTCACC AACCAACTAT 180
 CTAANTGGNC ATTTGGGGGA NTTCCCTCCC AAATTGATT TTNTNATTNG AAAAN 235

SEQ ID NO:7591

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08837

SEQUENCE DESCRIPTION:

GATCCAGAGC ACAGATGGCA AGTTGTGTGG ATGATACTGA ATATNTTAT TTTCTAAAG 60
 ATAAATNTCA CGACAGACA TTTCTCAGT TTAATTTAGA TGTTATNAC CATGTGTAA 120
 CAGAATCTTA AAACCAAGG NATTTCTTCA GTAACTAGA CTTTGATTCA AA 172

SEQ ID NO:7592

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08838

SEQUENCE DESCRIPTION:

GATCAAGAGG AAGCATGACT TGCACAAGAT GGCAGAGGCC AACCGTGCCC TGGCCCACTA 60
 CCGCTGGTGG TAGAGTCTCC AGGAGGAGCC CAGGGCCCTC TGCCGCAAGA AACAGTGTGA 120
 GCTACTGCCA CGCTGAAAAC TACCTGTGGG TTAAGGATGT AGTTCCTTTG TAAGGGTGGG 180
 CAGGCCTCGT AAGAAAGATG TAGCAGCATA TTCACTATCC GTTAATCCTT CTTTCTTTGA 240
 GGTGGAAGT TGCTCTCTCT GCCCCTATTT CTTGTAAAG AGGGAGCACA TTGACTTGGG 300
 AATTCTCTCC AGGAAACTCA GGGCTGTTTT CTCTN 335

SEQ ID NO:7593

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08839

SEQUENCE DESCRIPTION:

```
GATCTGGGAC TTCTTTAGTA TCGAGTCTCC TTTGCACTCT TAAAAATTGT TGAGGACCCC 60
AGAGAGCTTT TGTTTTATG GGTGTATCT ATCAATATTT ATCACATGAG AAATNATTTA 120
TTTATTTTAA AATAACTTTT TTATTGAGAA AGATAGCAGT GTTTTTTTTT AATCTTGCAA 180
ATTGTTTAAT GTTTGATTGA ATGGAAGACA GCCAGATTGT CCTATCAGCA TTCAAACTGC 240
TGCAGTAAGT TGTTTTGACT AATGTATATG AGGAAAACCT GACCTCACTG AGATTTTAAT 300
TGGAAAATGG AGGAGTATTT TNCCAGCCTT TNN 333
```

SEQ ID NO:7594

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08840

SEQUENCE DESCRIPTION:

```
GATCTCCTCC ATACGGAAC TTCTCATCTA CGTGGCCCTC CTGCGAGTCA CTCCATTTAT 60
CTTAAAGAAA TTGGACAGCA TATGAAGACA GGACATCACA TATGAATGCA CGATATGAAG 120
AGCCTGGTTA CAGTTTCGAC TCCTCTCTGC AAGTGAATAG GCCCAGAAAG GTGTAAGAGA 180
CTCTTTGAAT GGACATAAAA TTCTGCTTGT TAAGAACAAA 220
```

SEQ ID NO:7595

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08841

SEQUENCE DESCRIPTION:

```
GATCTGTGCT GGCCACGTGC CCGGNGTCTC AGCTCTGAAC CTGCTGTCCC TGCTGAGAAG 60
CTCTGAGGGC CCCTCCCTGG AGGACCTGTG AGGGTGGCTG GCCCCTGGGC TGCCCCCTTCT 120
NATGGCTTCG TGCTGACTCC ATAAACATTC TCTGTTGAGG ATGTCCAGTC AGGGCTTGAC 180
AGGCCCAGGN TCAGCCCGCC GTGGCTGGGA AGGTTCCCTG CAGTGCCAGT GCTGCAGCAG 240
GGAGAGCTGG GCAGAAGCAG CGAGGGGGCC CAGCTGGCGA GACTGTAGCC CCGTCCCACT 300
CCCACACTCA CTCTGTTAG AGCCTN 326
```

SEQ ID NO:7596

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08842

SEQUENCE DESCRIPTION:

```
GATCAGATGT TGAACGTGC TATGCTGTAG CGTGTCTGGA AACAAAGTAC ACAAACCTGG 60
CTACGGTGAT GAGTTAGCTT CTGCTTACTA CCTGTNACAA CCCAAGTGGG TGACACTAGT 120
GAACCTTCTC CAGTCTCGAG GCTGGCATAG AAGGCTCTTA GATTATATTG GGCAGCTTGC 180
```


AATCTGCCGA AGCAGTGA CTGATTTC CA CATTGGCTT GAGCACTCAA CCCAGAAGGC 240
 GAAGATAGCT TTTGGTTGTA GCGGGCTTCC TGTATGGGAT ATCCCTCGGT AAGGGTAAAG 300
 GAGCAGAGGC AAAGGAGAAA AGCAGTN 327

SEQ ID NO:7597

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08843

SEQUENCE DESCRIPTION:

GATCTTTCT CCTCCCTG CATGAGGCAG AGGCAAGCTG CCTGCCAACC CCCTCCCTCA 60
 AGGAATGGCC TTGCCAGGA ATGCCACCA CACATACCCT CTNCTTTTT NNTAGTCAA 120
 CTCTTGTTA TTCCTTGNT TGCNTCCCTC CTCCTCCCC TCTCAACCTT TACTTCTGAT 180
 TTNATTCA TGAATTGG GATTGANGTT AAATAACA AGTGCCGCCA ACACCAAGTN 240
 TTGCAGGAAA AAAATACAAA GAAATTTANC ANANAANN 278

SEQ ID NO:7598

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08844

SEQUENCE DESCRIPTION:

GATCTTCATT ACCGTTNCAT GATTGGAAAT ANTAAAAACA TTGTACAGTT TTAGTATAGA 60
 GAAATNTAAT GGNTTTTGT AACCAGTTTC TGTCTGCATG TAATTTGGAT TTCTCAAATA 120
 CATTCAATAG TAATTNATCA GTACATTAG TTTTATTTNN GTCCATCTCC TTATCTATAA 180
 AANGGGGATA TNCTTAGGAT NN 202

SEQ ID NO:7599

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08845

SEQUENCE DESCRIPTION:

GATCCATAAT ATAGCATCAC ATCTCAATAA ATTTATTTGG AAGCAAA 47

SEQ ID NO:7600

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08846

SEQUENCE DESCRIPTION:

GATCTGCCCA CCTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CTGTGCCTGG 60
 CCCCTTCCTG TAAATTTTN AAATGGAGAA TTGGGTGCNA GATGTGGTTT CCAGCCTGGT 120
 GCCTGGGGTG CTGAGCTANN NGAGTGGTGC AGTCCAGGAC ACCTTTGCTT TATCTCACTT 180
 ACACGGTCAC CTGGAGCCGG CTCAAGTGGC TAAAGCATCC TGGGGCCCAG AGCCAGGTGA 240

TAGGTCCCTN TGGCCAACTG GACAGTTGAG GCCTGTGGTT ACCCGAAGCC CAGCTTGGGG 300
CCCTGGTCCA GCCTNGCCTC CCAGGAN 327

SEQ ID NO:7601
LENGTH:326
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08848

SEQUENCE DESCRIPTION:

GATCTAGATG CTGGTATTGA GGTGGGAGAC AAGTACTGCC ACCNGAAACA ACAGTCTTGG 60
TAAATTTAGC CGACGAGGGT AAACACATCC TAACAGGGAA GGTAACTGT ACGTCCATCA 120
GTACCACTAG AGGGCATCNC NGGTTTATAG TTCAATACAG TGAATATATC AGANTAATGG 180
CCTTTAGTTT TCCTGAAAGA TTAANTTAGG CTTGCTAACT TGTTTAATGN GATANTCAA 240
CATATGATGT AATTTTAAAG GGTTTACATT TTTANAANTT TAATGGTTGC TACATAAAAN 300
GGGNTTCAGT TAACTNATTT TGCCTN 326

SEQ ID NO:7602
LENGTH:310
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08849

SEQUENCE DESCRIPTION:

GATCTCAGCA GGGAACCATG GAAGCACCCA CCCCTTGCA TTTTGGCTTA CCTGTAGCGG 60
AATGCAACAG AGAATTTTAT ATGCTAAGAT TTGTGGTTCC GTGGGAGAAT ATTTCAAACA 120
GGTGGAAACC ATCAAATAA AAGAGAACCA GAAATCATT AAAGGTCACG TGAGGAGCTT 180
CTGTNTTGTG CAACTTAAGC CTTACCAGT CTCCTATGCC CAGGTGCCCA GCACCCCAT 240
CATCTGCATA TTCACCATCC TCAGGTCAGA TTCTATGATA CTGNNATAA AGGCATTCTG 300
GAAAANTAAA 310

SEQ ID NO:7603
LENGTH:287
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS08850

SEQUENCE DESCRIPTION:

GATCCGGTCA GCAGCCCTG TGGCTAGAGG AACACCAGCA CAAACGACAG CCTCAAGTCT 60
CCTTCGAGCT TTATATCCAT TTGGGGATGA AGTCTACTTT NACAGCTAGC AAGGCGACAT 120
GCAACTGTG TTGAATGATG ACAGCAATTC AGGAAAGACT TAAATATGAA AGCAAATTGA 180
NCACATCGGG TGTGTGNAT CAGANNAGNG NTGNGATGTG ATAAGACTTG TTTATTGACT 240
AGCCAATATG TCATTACCT TCNGGTTTAT NTTGTGNANC CCCANN 287

SEQ ID NO:7604
LENGTH:66
TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS08851

SEQUENCE DESCRIPTION:

GATCGAGTTT TGGTTCGGGT TAACTGTGTG CCTACTGAAC CTGGCAAATA AACATCACCC 60
TGCAAA 66

SEQ ID NO:7605

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08852

SEQUENCE DESCRIPTION:

GATCTGGAAT GTGAAGCGTT ATAGAAGATA ACTGGCCTCA TTTCTTCAAA ATATCAAGTG 60
TTGGGAAAGA AAAAAGGAAG TGGAATGGGT AACTCTTCTT GATTAAAAGT TATGTAATAA 120
CCAAATGCAA TGTGAAATAT TTTACTGGAC TCTATTTTGA AAAACCATCT GTAAAAGACT 180
GAGGTGGGGG TGGGAGGCCA GCACGGTGGT GAGGCAGTTG AGAAAATTG ANTGTGGATT 240
AGATTTTGAN TGATATTGGA TAATTATTGG TAATTTTATG AGCTGTGAGA AGGGTGTGT 300
AGTTTATAAA AGACTGTCTT AATTGCATA CTTAAGNTN 339

SEQ ID NO:7606

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08853

SEQUENCE DESCRIPTION:

GATCCTTTGT GAGCAAGTTC TATTTGTTCA TTGCTTGCCA GAGATGAACA CAGAATGTTT 60
TGTTTCATTT TACAAGAACT ATCCTGAGTT TCTGTGGATG GAAACATTAC ATGTAATGCA 120
GATATAGTGA AACTGGGAAA GATTTATTAA AGANTTATAT TTGTGTATAC TTTATAAATT 180
AGTCCCTCAT TAGATTTTTT TTTTCTTAAG CATAAGACTG ANCTTAAATG TGTTAATTTT 240
AGTAGAATCA GGCAGTCTC GCAGAAGGAN CACAGATTGT NGAGATTAAC ATAAATNGTT 300
CTTGTTCTAA TATATATNTN TNNCCATTTT TGTCGAN 337

SEQ ID NO:7607

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08854

SEQUENCE DESCRIPTION:

GATCCGTGGA TTGAGGGTGC CTTTCCATTT ATTTGGTCT TCTTTACTTT CTTTCAACCA 60
AGTTTTGTAG TTTTCAGAGT ATAAATTTTA TACTTGTTTT GTTCAGCCTA TTAAGTTTTT 120
ATTTTGGTG CTATTGTAAA TNAATCTTC TTAATTTCAA TTTCAGATTA TTAAGTTAAA 180
TATACAGAAA TACAGCTGAT AAA 203

SEQ ID NO:7608

LENGTH:207

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08855

SEQUENCE DESCRIPTION:

GATCAAACT TTTATAATA CAAAGACATT ATTATTTGNT TTTTCACTG TCCCTCCTG 60
 AATATACAAC GGAGCATTCC AGATGCTAGA GTGACAGCCT CACTCAGACT CAGGGGATGC 120
 ATGCTTGCNT GTACAGTACT CGTATGTTTT AAATTTGTTT TAACTCCTAA TATGTAAGTA 180
 TCAATAAATA TAATCACCTT AAGTAAA 207

SEQ ID NO:7609

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08856

SEQUENCE DESCRIPTION:

GATCTTCGTG GTGAAAGCT AAATTTTAAA ACCACCCCAA TGGATGCAGA CAGTGATGTT 60
 GCATTGGACA TTCTAATTAC AAATGTAGTC TGTGTTTNA GAACAAGATG TCATTTAANC 120
 TTAAGGAAGA TTGCTTTGGA AGGNGCAAAT GTAATTNATA ANCGTGATGT TGGAAAAGTA 180
 TTANTGAGGC TTAGAAAACC TAGANTTACA GCTACANTTN GGTCTCAGG AAANNTTATT 240
 TGCNCTGGN 249

SEQ ID NO:7610

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08857

SEQUENCE DESCRIPTION:

GATCTGTAGT ATTTTAATGT GCATCTACTT TAAATGAGTC ATCTTGGGGT TTTTATAATT 60
 CCCTTATGTT CTCGCCCCCTC TACACTTGAA ATAACAAAAT GCCTTAATTT TATGGATTAG 120
 NTCTCTTATA GGAGACAGGC AGCTATATGN AGCAANCCCA GTAAAGTTAT TTTTCAACTN 180
 TCANAGTTGT AAAATATTTT ATAACAGTTT ACANCAACAG CTGNAGANCA ACATGCCACA 240
 TTTNTTTGC AGCATTTTCA AATANTTTGT TTTGTGGTGT NAGCACAGGN TAAANNTGGG 300
 GNGCGTCGAT GTGAGGCGN 319

SEQ ID NO:7611

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08858

SEQUENCE DESCRIPTION:

GATCTACAAA AAATTCCTGG AGCCATATAT ATACCCTCTG GTTCCCCCT TCGTTAGTCG 60
 TATATGGCCT ANGAAAGCAA TACAAGANTC CAATGATACA AACAANGGCA ANGTAACCTT 120
 TAAGGGTGCA GACATGAATG GTTTACCAAC AAAAGGNCCA ACAGAAATCT GTGATAANNC 180
 GNAAGACTAA NGAAATTTTC CNAAGGN 208

SEQ ID NO:7612

02149

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08859

SEQUENCE DESCRIPTION:

GATCTTCCCA CCTTCAGCCT TCCAAGTAGC TGGGACTACA GATGCACACC TCCAAACCTG 60
GGTAGTTTT NAAGTTTTT TGTAGAGGTG GTCTAGCCAT GTTGCCTAGG CTCCCGAACT 120
CCTGAGCTCA AGCAATCCTG CTTTCAGCCTC CCAAAGTACT GGGATTACAG GCATCTNCTG 180
TAGTATATAG GTCATGAGGG ATATGGGATG TGGTACTTAT GAGACAGAAA TGCTTACAGG 240
ATGTTTTNT GTAACCATCC TGGTCANCTT AGCAGAAATG CTGCGCTGGG TATAATAAAG 300
CTTTTCTACT NCTAGTCTAA A 321

SEQ ID NO:7613

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08860

SEQUENCE DESCRIPTION:

GATCCTTCCT AGGGGATGGG GGAAGCCCTG GCTGCAGGCA GCCTTCAGG CAATATGNNG 60
ATAGGAGGCC CACGGGCCTG GCAGTGAGAG GTGTGGCCCC ACACCGATT ATGATATTAA 120
AATCTCAACT CCCAAA 136

SEQ ID NO:7614

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08861

SEQUENCE DESCRIPTION:

GATCCCGTCT CTACAAAAA TAAAAAAA TTAGTCGTGG TGCCAAA 47

SEQ ID NO:7615

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08862

SEQUENCE DESCRIPTION:

GATCACTTT TCAATATTAA ATNTTATTTA CATAAA 36

SEQ ID NO:7616

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08863

SEQUENCE DESCRIPTION:

GATCATCATG AAATNATAAG AGGGCTTAAG AATTGTCCA TTTGCATTG GAAAAGAATG 60

ACCAGCAAAA GGTTTACTAA TACCTCTCCC TTTGGGGATT TAATGTCTGG TGCTGCCGCC 120
 TGAGTTTCAA GAATTAAAGC TGCAAGAGGA CTCCAGGAGC AAAAGAAACA CAATATAGAG 180
 GGTTGGAGTT GTTAGCAATT TCATTCAAAA TGCCAAGTGG AGAAGTCTGT TTTTAAATAC 240
 ATTTTGTGT TATTTTAAA 260

SEQ ID NO:7617

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08864

SEQUENCE DESCRIPTION:

GATCAACTTT AGTCACCAAC CCAATGGAG GATTNTGGC TTGTGGGNCC TTATATGCCT 60
 ATAGNTGTGG ACATTGTCAT TACACAACTG GANTCTTNC TN 102

SEQ ID NO:7618

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08865

SEQUENCE DESCRIPTION:

GATCAAGGGG CCTCTCAGAA CCATGTTCCC CAGCCAGGTG AGGACCATTT TAACTGGGAC 60
 CCAGGNCAAA ACCATGTGGG TGCACAAAGC CAGGCACTGC CAAGTGGAAC ATGAGGTTAT 120
 TTCCAAATCA TGGGAGCCAC CAGCAGGGAG AGGGCAGTAT GGAAAATCCC CTGGAGCCGG 180
 TCAACTNTTT GCTCATGGCT AGTGAAATAA AGTTGTTTGA GTACTAAA 228

SEQ ID NO:7619

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08866

SEQUENCE DESCRIPTION:

GATCTCTTAC TCCCCAGTT TGAATGGTAA ATTTGAATGG TAAATTCCCA TGAACATATA 60
 TGGAAATATC TTTATCTAC TTTNTCCAAT AAAGGCTGTT CTTAGCTTTT AAA 113

SEQ ID NO:7620

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08867

SEQUENCE DESCRIPTION:

GATCACCTGN CAAATGTTTG AGGACGGAGC TGTGCAGTCA CATTATTGGG GATTCCACAG 60
 CTGGTGCTGC AGGCTTGCG CCTCCAACCA GGACTTNTT CTTAATGCTC TCGACACTTA 120
 GCTAAACAG ACTATATCCC GGCCAGCAG GCCCAGCGC CGTTAGTCTC CAGCTGACTC 180
 TGTGGGTTGG TCTTAAAGCA AATTCTGTTT TGTGGACTGC CTGGCAATTT TTNAGCTAAC 240
 TGTAATGATA AAAAGGGAGT NTTAATCTAT TCTGAATCN 279

SEQ ID NO:7621

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08868

SEQUENCE DESCRIPTION:

GATCAAGTTG TGGTGGATAA CGTGTITCCA AATTGCATCT TGTGCTGAA ACTTCCTGGA 60
CTTGAGAAGT TACTTCATCA TGTGACAGAG GAAAAAGGTA ATCCAGAAAT AGACAACAAG 120
AAATATTACA AGTNCAGCAA AGNGAAGACA TTAAAGTGGC TGGNAANNNN GGTTAATCAA 180
NCTGTGGCAG CATTAANN 198

SEQ ID NO:7622

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08869

SEQUENCE DESCRIPTION:

GATCCAGAAA GTAGCAATAT AGGACTTTAA GGGGTATGTA TTAGTGTAAT TAATATATGT 60
GCAGTCTAGG CTAATCATNT TAATTAAAAA CAAATAAGCA TACTTTTTTN CTTTAAAAAT 120
ATGCCCTCAA AATGGTGGGG GATAAANTGT AAGATATTCT TTAGCTGNNN TTATTTNNCC 180
GNCN 184

SEQ ID NO:7623

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08870

SEQUENCE DESCRIPTION:

GATCCTAAGT CTCTTACAAA AGCTTTGAAT ACTGTGAAAA TTTTTACAT TCCATTTTCAT 60
TTGTGTTGTT TTTTAACTG CATTTTACCA GATGTTTTGN TGNATCGCT TATGTTAATA 120
GTAATTCCCG TACGTGTTCA TTTTATTTTC ATGCTTTTTC AGCCATGTAT CAATATTCAC 180
TTGACTAAAA TCACTCAATT AATCAATGNA AA 212

SEQ ID NO:7624

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08871

SEQUENCE DESCRIPTION:

GATCGCAGAC CGCGCTGCC ACACGAGTC CCCGGGGAAC AACGTGGTTG GACATCAGCG 60
TGCCGCCCAC CACGGACGGA CAGAAGTCTC TTTAAGAAAA TAGTTTAAAC AATTNGNTAA 120
AAAATTTTCC GTCTTATTC ATTTCTGTAA CAGTTGATAT CTGGCTGTCC TTTTATAAT 180
GCAGAGTGAG AACTTTCCCT ACCGTGTTG ATAAATGTNG TCCAGGTTCT ATTGCCAAGA 240
ATGTGTTGTC CAAAATGCCG TTAGTTTTT AAAGATGGAA CTCCACCCCT TTGCTTGTT 300

TTANGTATGT ATGGAATGTT TATGGATAGG GACATAGTAG TAGCGGTGGT CAGACCATGG 360
GAANTGGGTG GNN 373

SEQ ID NO:7625

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08872

SEQUENCE DESCRIPTION:

GATCCTACAA GCATGCTGC TGTAACCTA TGTATGTTTT CTGTAAAATC ACATACCTAT 60
AAAAATAAAA GAAA 74

SEQ ID NO:7626

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08873

SEQUENCE DESCRIPTION:

GATCGTGAAC ACTGCATTCC AGCCTGGGTG ACAGAGCCNG ACCCTGCCTC AAA 53

SEQ ID NO:7627

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08874

SEQUENCE DESCRIPTION:

GATCTACCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CGCGCCTGGC 60
CCTCTGCAGT TGTTTAATAA GGCACAGAAT ACCTGTAGCA TAGGTCAGCC TTACGATGTC 120
CATGAATTAC ATATTCAGAC GTTTTAGAGC CTGATACATT TTGGAANCGA AAAACAACTT 180
CTACACCTAT TCTACAGTCC GCATTAAAA CAATAAATTC CTCTATTAAA AACGTAAAGC 240
CGGGTTTGCT TCGTGCCAC AGGGGGTATA TCCAGGAAGG TTATTATGAA GCTGTCAAAT 300
CAAGATGATG GNAATAAGGC AGTTTGAACG GACAGTCTTC CCACAGTCAG GCCATTTTGT 360
CTGATTGTTT TTAGGATTN 379

SEQ ID NO:7628

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08875

SEQUENCE DESCRIPTION:

GATCGGGCGC TGTGCAGTGT GGTGAGCATG GTGAAGAAAG TCATTTCTC GGTGGGCAGT 60
ATTCTCTTT ATCTCTCATT AACTGGAAA TGTATTCTT GCTGTATCAT CCGTGCTCAA 120
CGTTTTAGTC TGTCAGGCTC ACCTTCTCTC TGGAAAGAAT TTGCTTAACT TGACATTCCA 180
TGTGCCGCTA ATAAATATA TTTGAAAGA AA 212

SEQ ID NO:7629

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08876

SEQUENCE DESCRIPTION:

GATCAGAANT AATTACCATT CCCNGTGTTT TGCTGTAGGA CCTTCAGGTC TATGTTCTAA 60
GTGGGGNTTA TGAAACTGGT AATAGAAAAT AATGGAGAGC AGTTAAAGAG TTAATATACA 120
TTATTAATAT GNGTGCTCTC TACAGGCACA CAAAGCCTGT AGACTCAACA AATTACTCC 180
TGAAGTTTTC CAAATTGCA AAATCTGCAA TTTNTGTGCC ACATAAAGCT NTCCAGAAAT 240
TGAAAANCNG TAAANCACCG GGTCTCANTT TNTTCCTGCA TTTCACTGAT ACCTTAANTT 300
ACATAGNTTA NCTTCTTTAN AGCACTACCT TTTNGCTGT TGNTATTAA 350

SEQ ID NO:7630

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08877

SEQUENCE DESCRIPTION:

GATCTCACA CTGCACTCCA GCCTGGTGAC AGAGCAAGAC TCCATCAAAA ATAAACAAAT 60
AAAACAAACA AACAAA 76

SEQ ID NO:7631

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08878

SEQUENCE DESCRIPTION:

GATCAAAGTC TGCTTCATTG TCTTGTTCCC CATTTTAATG GCAATGTTAG GTATAATNTT 60
TGCTTTTATT AAGTATAATN TTTGCTTTTG TTGGTAGAGT TTTACGATTT TACATCAGAA 120
GTACCTGTTC AACTTAATTG CCACGTTTAA GCATCAATTA AAATATTTTC ATTGAACTCA 180
TGAAA 185

SEQ ID NO:7632

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08879

SEQUENCE DESCRIPTION:

GATCTTTTAG GAATTAACT TGCAAATNAA ATGAAATATG TTGGGACTTT GGCATAATTT 60
GAATATAGCA TTGTGTGAGT TGTGATTGTN TCTTCCTAAT TGTGCTGTAA TAACCTGTGT 120
ATGAGAATAA AATGATTTC ACCATCAAA 149

SEQ ID NO:7633

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08880

SEQUENCE DESCRIPTION:

GATCTCACTC CATGATTACT GTGTAAAATA TTTTGCACCT GTTGTGAAGT ATTTTAACT 60
 TTTTCTGTA CATAACTGTG TTCTCAGAGC TGAATGTTA TATCTTTGC TGTGCAAAAG 120
 AAACANNNA AATGTTGTTT AGTTGTATAT ACAGAAATGT GTATAAAACA TTTTGTATT 180
 TTNAAAAGT AAA 193

SEQ ID NO:7634

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08881

SEQUENCE DESCRIPTION:

GATCAAGAAT TTTGTAGAGT GGACAGTCAT TACATATGTT ATAACCTATC CTTTAAAAAC 60
 TATTTTAAAC TTTATCCTTT CAGCTTTACT TAGTGCGATG TTTTAGAAGC AGTCTTCAA 120
 GAATAAAACA CTAACCATGC ATGTGAAA 148

SEQ ID NO:7635

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08882

SEQUENCE DESCRIPTION:

GATCCATTTC TGTGTCCTNT AGCCTAGTAT GTCTGAACTT CCATTCTTGT TATATATTTA 60
 AACTTTCCCT CTATATTATA GGNTTNGTGG CNNCCACGGT CAGGTGTAGA GGAAGCTGCC 120
 CCTTGCAGAA CTGTACTGTA ATATTTTCT TTTATAAATA TTTTACAGG ACTGATTGTA 180
 CACAGGGCTT GTAATAAAAT TTAAACACTG TGCTGTGAAA CAACTATGGG GAATCTCCAT 240
 TGAAGGCTAC TTCATGGGCA CCTGAAAGTG GAGTGTATA GCTATGACTT TCTATTTCTT 300
 GTTTCCTAAG TAAATTAAC CTAATTTCA CCCTTTCATT CTGTTTCAGC CTCCTGTNTA 360
 AGGAAGTACC GTTTGN 376

SEQ ID NO:7636

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08883

SEQUENCE DESCRIPTION:

GATCCCATTC ATTGTCCTT TTGGGGTATT TCCAATACTT GAATGGCAGA TTGGAGTTTT 60
 TCAGAGTATG TGTTTCATCT GCTAGTCTTT CTCTCCTTCA TAGCTTTTCT TTTCTGGAC 120
 TTGCTCCTTT TGAGTTGCTT TTGCGTTTCT CATGCCTAGG CAAGTGTAAT AGAAATTATG 180
 TAGCTCCTTA TGTTGGCAAA GGAGCTCTAT ATAGTTTCAC TTTGTATACA AGTTAGGNCC 240
 AGCTGTTGTT ACATGTAATA TNNTGGTTCA GAACTTGAN 279

2153480

SEQ ID NO:7637

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08884

SEQUENCE DESCRIPTION:

GATCTCTGAT TGCATCTATG TGGATTCTTT TTGGAGGTTA TGTGCTAAA GAAAAAGACA 60
TAGTATACCC TGAATTGCT GTATTTNCC AGAATGCCTT CATCTTTTT GGAGGGCTGG 120
TTTTTAAGTT TGGCCGCACT GAAGACTTAT GGCAGTGAAC ACATCTGATT TCCCACAGCA 180
CAACAGCCCT GCATGGGTTT GTTTGTTTT TTAGTGCTCA CTCCAACCT TTTGTAATGC 240
CATTTNCTAA ACTTATTCT GAGTGTAGTC TCAGCTTAA GTTGTGTAAT ACTAAAATCA 300
CGAGAACACC TAAACANCA CCAAAAATCT ATGTGGTAT GCACTTGATT AACTATAAN 360
ATGTTAGGTG GTN 373

SEQ ID NO:7638

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08885

SEQUENCE DESCRIPTION:

GATCACACCA CTGGCACTCC AGCCTGGGCG ACAGAGTGAG ACTCCGTCTC AAA 53

SEQ ID NO:7639

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08886

SEQUENCE DESCRIPTION:

GATCCGAAC TGAATCACAT CCTGTATGGT GGATGGACTG TATATTGAGG GTTCATTCT 60
TCGCGCAGTT TAGACATCTC TGTTTGTATT CTTTGTGTT GTTTTATTT TAAAAGGCAC 120
AAACTCTAGA TATTAGTTGA ATGTTGAGGC TTAACTTTT TCGGTGCTT TCTACAACTG 180
TGTTCTGTGA CTCAATTGTG TCGTGTAAT ATCAGTACAG ACTGTCTCCT CTACGTGACC 240
GTATAATGTT TTTCTCTCT TGTAGTCTCT ATGGCGTGTC TTTATGGTGT AATAAGGTTC 300
TCACGGGTTC AATCTTTTGT GTTTAGGGNN NNCACGGTTC AGACCAAATG GTATATAATT 360
TTN 363

SEQ ID NO:7640

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08887

SEQUENCE DESCRIPTION:

GATCTGGTTC TGAGGAGGAC ACACCTGGCA TCGGATGACC TTTATAAATT ATCTATGAAA 60
ATGCCAAAAG CTCTCAAGCC AAAGAAGAAG AAAAATATTT CCCATGATAC TTTTGGTACA 120
ACTTATGGAA GGATTCATAT GCAGAAGCAA GACCTAAGCA AACTACAAAC CAGGAAAATG 180

02156

AAGGGGTTGA AGAAGCGACC TGCAGAAAGG ATAACAGANG ACCACGNGGA AAAAGTCAAA 240
AAGAATTAAA AAAAATTGAT GGAACCTAAA 270

SEQ ID NO:7641

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08888

SEQUENCE DESCRIPTION:

GATCTCTGAA AAGACGTTAT CACCTTAAAG CTCAAATTCT TTGGGATGGT TTAACTTAA 60
GTCCATTAAC AATTCAGGTT TCTAACGAGA CCCATCCTAA AATTCTGTTT CTAGATTTTA 120
AATGTCAAGT TCCCAAGTTC CCCCTGCTGG TTCTAATATT AACAGAACTG CAGTCTTCTG 180
CTAGCCAATA GCATTTACCT GATGGCAGCT AGTTATGCAA GCTTCAGGAG AATTGAACA 240
ATAACAAGAA TAGGGTAAGC TGGGNTAGAA AGGCCACCTC TTCACTCTCT ATAGANTATA 300
GTAACCTTTA TGAAACGGGG CCNTNTAGTT TGGGTN 336

SEQ ID NO:7642

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08889

SEQUENCE DESCRIPTION:

GATCCATTTT AGATACTTGT GGCAGCAAAC AAAGCAGTTC ACCTCTACAA ACTGGGAAAA 60
ATGAAGACAA GAACTCTATC TACTGAAATN ATTTTCANCC TTTCCCCAAA TAACAATATT 120
TCAGAGGCTT TGAAAAAATT TGGTATCTCA GCAAATGACA CTTCAATTCT AATTGTTTAC 180
ATTGAAGAGG GAGAAAAACA AATAANTCAA GANTACCTAA TATCTCAAGT AGAAGGTCAT 240
CAGGTTTCTC TGAAAAANTCT TCCTGAAATA ATGATTATTA CAGANGTCAA ANAGGTATAT 300
AANCTCTCTT CACAGGNGGN ANGTATCGGA N 331

SEQ ID NO:7643

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08890

SEQUENCE DESCRIPTION:

GATCCACTGT CCGGCAGAGG AAAAATGCCA GCTGTGGGAC AAGGAGTGCA GGCCGCACAA 60
CCTCGGCAGG CACCGGGGGG ATGTGGCGAT TCTACACAGA AGATTCACCT GGGCTCAAAG 120
TTGGCCCTGT TCCAGTATTG GTTATGAGTC TTCTGTTTAT CGCTTCTGTA TTTATGTTGC 180
ACATTTGGGG CAAGTACACT CGTTCGTAGA TTCAGTTACA TCCATCTGTC ATCTGAAGAA 240
GGAGGAAAAA ACCCAACATT TCTTGGACCA AAAGTATAGT GACTATCTGT TCATGAGAGA 300
AATTTTCTGT NAGCTTGCTG TTTTGAN 327

SEQ ID NO:7644

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08891

SEQUENCE DESCRIPTION:

GATCAAGATG AAGTTCAGCT AGAAGTCATA CCACCCTCAG GAATCAGCTA AGTAATTATN 60
 ACTTGATTCT TTTAGCAAAT CAATGCACGT NATCCTACTT AATCCTTAAA TAAGTTTAGA 120
 TTAACTAAC CCAAAGTCCA GGAGGATGTT CTTACAAAAN TAGCTATATC ANGGGCTGGC 180
 ACCTAGACAT TAANCTGTAA TTNGANAATA AGCAACATGT TGCATAACTN GTTGAATAA 240
 TTCCTTGTC TGTTTAACAC TTGTCATAAN TTAGCAGNGT AANNNTN 287

SEQ ID NO:7645

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08892

SEQUENCE DESCRIPTION:

GATCTACCCA ATTAGAAATG CAACTTGAGA AACCCAAACC TGTAACCA GTGACGTTTT 60
 CCACAGGCAT CAAATGGGT CAACATATTT NACTGGCACC TATCACAAG CTTGAAGAAG 120
 CTCTGTATGA ATACCAGCCA CTGCAGATAG AGACATATGG ACCACATGTN CCTGAGCTTG 180
 AGATGCTAGG AAGACTTGGG TATTTAANCC ATGTCAGAGC TGCCTNACCA CAGGACCTG 240
 CTGGAGGCTA TACTTCTNCT CTTGCTTGTC ACAGNGCACT ACAGGATGCA TTCNGTGGGC 300
 TTTTCTGGCA GCCCAGTTAA CCATTN 327

SEQ ID NO:7646

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08893

SEQUENCE DESCRIPTION:

GATCTGGCTG CTCATGAAGA CAAAGTTCAG AGTGTAGACT GGACAGACAC AGGGCTACTT 60
 CTGAGTGGAG GAGCAGACAA TAAATTGTAT TCCTACAGAT ATTCACCTAC CACTTCCCAT 120
 GTTGGGGCAT GAAAGTNAAC AATAATTGTA CTATAGAGAT TATTTCTGTA AATGAAATTG 180
 GTAGAGAACC ATGAAATTAC ATAGATGCAG ATGCAGAAAG CAGCCTTTG AAGTTTATAT 240
 AATGTTTTCA CCCTTCATAA CAGCTAACGT ATCACTGGGG CTTATTTTGT ATTTTATAAT 300
 AAGNTAGGGT TGTGTTTNT NAAATNCGN 329

SEQ ID NO:7647

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08894

SEQUENCE DESCRIPTION:

GATCTTCAAG TGAACATCTC TTGCCATCAC CTAGCTGCCT GCACCTGCCC TTCAGGGAGA 60
 TGGGGGTCAT TAAAGGAAAT CTGGGACAAC AAA 93

SEQ ID NO:7648

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08895

SEQUENCE DESCRIPTION:

```
GATCTGCATG CATTGCTTGC ATTTTNTTGG TATCTGAATG TTGGTTCCTT GTTCCAGGAA 60
TTCAACATTA NTTTCCAAAA GTATCATGGG ACTTGTGACA ATACANGTCA TGAATCTATG 120
TATAAAATTT ATCGGCCTTT CTCATTTACC TGCTCTAGTA TTATTGTATT GTGTGTGCGT 180
GCGTGTGTGA TGTCAGGCTG CCACGTAAAA CTTAGAGGA .AAATCTTAA NGCAGGCCAT 240
CCTTTTTNGC ATGCTCTATT CTAAGTAGGA ATGTTCAATG TAN 283
```

SEQ ID NO:7649

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08896

SEQUENCE DESCRIPTION:

```
GATCACCTGT AGGTCAATAG TTCGAGACCA GCCTGGCCAA CAAGGTGAAN CCCATCTNTA 60
CTAAAAATAC AAAAAATTAG CCAGGTGTGG TGGTGTGCAC CTGTAGTCCC AGCTATTTGG 120
GAGGCTGAGG TGGGAGAATC ACTTGAACCT GGGAGGCGGA GGTGTCAGTG AGCTGAAATC 180
GCGTACCACA CTCCAGCCTG GGTGACAGAG CGAGACTGTG TTTCAAAGAA AAAAANAACC 240
AGGCAGCCTT TTGCTTGGTT GGAATCTGAT TTTCTN 276
```

SEQ ID NO:7650

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08897

SEQUENCE DESCRIPTION:

```
GATCTAAATA TTCAGGTTTT AAGCCTGCTG CAAACTTTTA AAATATTATG ATAGNTTCTG 60
TACTACATGT GGGAAACAAG CAAGAACTAA ATAATCAAAT GTTGTCAACC AAAAGTAATA 120
GTTGGGTATT GGAGATTTTT TAAAAATGTT TTTATGTTAT TNGCTATTTG GAGTTAAATA 180
AA 182
```

SEQ ID NO:7651

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08898

SEQUENCE DESCRIPTION:

```
GATCTNAGAA AACGTTTAAAT ATCAGATTN TTTATTTTNN CCAACACAAC TGAATCAGTT 60
TTCTTAAATA AAAGTTTATT GTCTACTGTT AAA 93
```

SEQ ID NO:7652

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08899

SEQUENCE DESCRIPTION:

GATCTAAAGT TAGTGCCTT TGCCTGTAAA ACATGTGATT TGCAAATTAT TATTTTNNTT 60
TTTTTTAACA AATGGAAGTA AATTGTTTC ACGTAAATCT TAATTTTCAA CCTTCTGGA 120
TACCTTAATT GTAACGTCA GTTGCACTG GTCGGTATAT GGAAACACAT TGCTCTACCC 180
TGCTACTTAG TTGNTTTTAA AGTGAATTN CAGTGATGNG AAATTTGTGA AANNTATATT 240
GTATTTCTTT TGATGTTTCA AAAGGTTGCC TATGN 275

SEQ ID NO:7653

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08900

SEQUENCE DESCRIPTION:

GATCTTTAGG TGTGAACTG GGAATATGCT CTGCAACACC CAGGATTAGG ATAGAGATGG 60
ATTCATTTT ATATGGGCTA GCATATTATT ATTAAAGACC ATTCAGGAG TGGGACTGTG 120
AAAGGAGGTG CTCTGTTATC TGGTCCAAGA GCTCCTCTGG GAATTAATCC TGGCTGGTTC 180
TGATGAGCTG GCAAGGNGCA GNGGATTGCA GTCTTTAAGT AGAAAATTNG AACCCCATCC 240
ATATAACACG TGNACGTGCA TTAAATAGCT TGAATTGTN 279

SEQ ID NO:7654

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08901

SEQUENCE DESCRIPTION:

GATCAAGACC AGAAAGAAAT TATTGATACC AATGGAGCTG GAGATGCATT TTTGGAGGT 60
TTTCTGTCTC AACTGGTCTC TGACAAGCCT CTGNCTGAAT GTNTCCGTGC TGGCCACTAT 120
GCAGCAAGCA TCATAATTAG ACGGACTGGC TGCACCTTTC CTGAGAAGCC AGACTTCCAC 180
TGATGGAAGA GCTGAAAACA CAAGCCCAGG AGTGCAGACA CTGCCCTAAT TGCTTCCTGA 240
GAATTCCTCAT ATTAATAAAG ANG 264

SEQ ID NO:7655

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08902

SEQUENCE DESCRIPTION:

GATCTTTTAG GAAAAAAAT AAATATTTT AACATTAAAG CAGTCACTTT GGTTTATCAA 60
A 61

SEQ ID NO:7656

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08903

SEQUENCE DESCRIPTION:

GATCTGTTTG CTTAGCTGTC AACAAAAAGA AACCTGAAG GAGCATTTGG AAGTCAATTT 60
GAGGTN 66

SEQ ID NO:7657

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08904

SEQUENCE DESCRIPTION:

GATCTNACTA AGCTTTCTTA GGAAGGGAAA GCATCTGGCA AGGAGTAAAA TGTCTGTTTC 60
CAACAATTGT CCCTGTTCCC ACTACTTTTT AAAAATGTCC TTAGTAAAAA GTGTATATGA 120
GGCAAGATTA TATTGAAAAA NTGAATATAA GAAAAAATA TTATGTTAGA GAGNAACGTA 180
TTCAGCATTG TTNTCAAAT CACAACTGT TAGGNGACTC TGACATCAGG TTTGTTCTCC 240
ATATGCAGCA AN 252

SEQ ID NO:7658

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08905

SEQUENCE DESCRIPTION:

GATCTACATG GATGTTCTGT TCTCTGAAC GTCTGGATGA ACCGGTCAAC GGCACTCATC 60
ATACCTTAGT TTTTAAATCT GCATTGTGGT CATAATCTGT TATTTAATTA ATTTCTCGTA 120
TTTTTAATAA AAACTTTGCC TATATATTTT AAA 153

SEQ ID NO:7659

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08906

SEQUENCE DESCRIPTION:

GATCCCAAAA GTAGCAAGAG AAA 23

SEQ ID NO:7660

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08908

SEQUENCE DESCRIPTION:

GATCAATTGC AGAATGATAC AGATAGTACA ATGACTTTTT TGTAATTTG AATTAAAAGT 60
TTCTCATAA AACTCAGTAC TATCTATTGG TAATGGATGC ATATATGTAT GTACATGTTT 120

TTNAAACGGA TTGGAAGGAT ACAGACCAAA CTCTTGATAG TGGTCACCTG TGAAGAGTGG 180
AGAAGGGAAA ATNATGAGTG TGGGAGGTGG GATGGGTATT GGTAAANGG GACTTCAGCT 240
TTTTATATAA ACATCCACTT CTCTTCAAA AAGNCTTCAN 280

SEQ ID NO:7661

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08909

SEQUENCE DESCRIPTION:

GATCATTTA AAAAAGTAA TCTATATNAT NTTAACTTC AGAAGGCATC ATTATAAGA 60
CAGTATGGCA GTTAATTATA AAATNATTTT GATGAATTAT GATACAATCT ACATAATAAA 120
GAATNCTTTT GATTAAA 137

SEQ ID NO:7662

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08910

SEQUENCE DESCRIPTION:

GATCCTAAAA CTGTCTCTCA CATTATATAG TAGATGTTTG TTTATAATGT TTACAAAACA 60
TTTTGGTGAA TTTCCTCAAT GTTTTATAAA TGTACATTTT TTAAGTCCTT AAGCTGACTC 120
TTAGCCATCA TGTAAGCTTAA GGAGTCTGAA ATCTGCCATT AAAACTGCAC CTTTAAGCCA 180
GGTGTGGTAG CATGTGCCTA TAGTCCCAGC TACTTGGGAG GTGGAGGTGG GAGGATTATA 240
AATAGAGACT TTCCTTAAGA CTTTAAAAAT GTATTGNNA ACTATTTTTT ATTAAATACT 300
TTGTN 305

SEQ ID NO:7663

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08912

SEQUENCE DESCRIPTION:

GATCCTAACC TTGAAGTATG CCTTGAAGTT ATTAACATGG CCATTATAAG AATAAAATAT 60
GTAGTTGTGT CTTAATGGAA TTAATAAATG TCATTTCACT AAA 103

SEQ ID NO:7664

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08913

SEQUENCE DESCRIPTION:

GATCAAGGAA TAAAGAATCA TTAAAGAATG GGGTGTGGG GGTTCCTTA ATTATCAGTG 60
ACACATTAAT TTTTTCCTT AGAGCTTCAT ACAATAAACA CATTGCAGAA AGTTTTAGAA 120
AGTTTTGCAG GACCTTAAAT TTTCTGCCCT GACACTTTTC GTCATGTTTC CTGTATTCCN 180

GGTTATTGTA GCGCATGCTT TTCAGGTAGT N

211

SEQ ID NO:7665

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08914

SEQUENCE DESCRIPTION:

GATCTTAAAT TTTGTGATAT GGAGCCCTGT AATNTTTTTC TTATATAAAA ATGGGTATCT 60
ATATTCATAA A 71

SEQ ID NO:7666

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08915

SEQUENCE DESCRIPTION:

GATCCAGCT CATGGCACAG CCGTTTGTAT CCTCGGAAGA ACGGAAGGAA CGATGGGAAC 60
AGGGCCAGGC TGATTATATG GGAGCAGATT CCTTTGACAA CATCAAGAGG AAACCTTGACA 120
CTTACCTCCA GTAGAAACAC TGCATTTTTC TGTGAACACA TCCACTTCAC AAGCCTTGTT 180
TCTGATACTT AGTATCTAGA GCTGGGTTGA GAAAAGTCTG TTACAGTTGC TAGAGGTTTT 240
CATTAAANCT TATCAGGNGG GCGGCTTTTT TAGGATAAGA GGTGAGAACT GGGCAAAAGT 300
TGTGAAGCAG CAATTCTGTT ATATGGNCAG TGTCTGCTT TTTN 344

SEQ ID NO:7667

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08916

SEQUENCE DESCRIPTION:

GATCAGACT GCTGCACTCC AGCCTGGGTG ACAGNGCGAG ACTCCATCTA AAAAAACAAA 60
AAGCAAAAAA ACCCACAAAT ACCTCATGGA GATGAACTGT AATAATTGCT TAAAGTTCCA 120
TTTAATTATG TTAACCTAA TCTAGCAAAA ACATAGATGT ACTTAAAAAT AAATCATGGA 180
TAATGATTTT TTAACCTAAA 200

SEQ ID NO:7668

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08917

SEQUENCE DESCRIPTION:

GATCTCATTT TCAAGTNTGA GTCTGACCAA CCATGGAAAA TATTCGACAT GAATTAATGT 60
AGAGAACTAT AAAGCATTTA TGACAGCTCC AAGAAAAGTC ATCTACTCTA TGCAGGAGAT 120
ATGTTTAGAG ACCTCTCAGA AAAACTTGCC TGGTTTGAGG GTACACAGTA CCATTTTAAT 180
CTTCTGAAAA TATCTGTATT CCTGCTCTGG GGNTGCTGTC ACTGTCAATC TGCTATATTT 240

TTCATATCC TATTAAAATA TTACTGTCTC CTTTAAA

277

SEQ ID NO:7669

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08919

SEQUENCE DESCRIPTION:

GATCTTCTAC ATTTATATTT TTAATCTTCT GTTAAATACA CTTTCCGATA TTGCCTTGCC 60
TTTTGAGCTC TTGCTACAGT CGCCTTTGCT ACTGCTTTAA GAGAATTTAC AGGTATTGAT 120
AAAGAACAAG ACTGTTTTAT TAAAAGNTT ATTCAACTTG AAA 163

SEQ ID NO:7670

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08920

SEQUENCE DESCRIPTION:

GATCCAAATC TGGTTCAAAC ATTCAAACT TCAAAGATAA TTCATCTTTC GCTAATGCTT 60
GTGGTTCTGT NGTTCCCTTG AAAAAAATA AAAACCCGAC CCAGCAGCAA A 111

SEQ ID NO:7671

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08921

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTTCCCGT CACCCTCAGA TGGGACCGTC TAGTTGTAGG AAAACAAGCT 60
CAGGGCTCCC ACTGATTCTA CATTTTGGTG AGTTGTATAA TTGTTATGTA TTGCAATGTA 120
ATAATAATAG AAATAAAGTG TACGATAAAT GCAAA 155

SEQ ID NO:7672

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08922

SEQUENCE DESCRIPTION:

GATCTGGAGA GGTGTTTGT GAAAGTGGAG AAGATTCACG AAAAGGTCTA AATGAATTGC 60
GTGTGCAGGG CGCGGATTTA AAGTCCAATT TCTCATGACC AAAAAATGTG TGGTTTTTTC 120
CCATGTGTCC CCTACCCCCC AATTTCTTGT CCCCTCTTAA AGAGCAGTTG TCACCACCTG 180
AACACCAAGG CATTGTATTT TCATGCCAG TTAACCTATT TACAATATTT AAGTTCAA 239

SEQ ID NO:7673

LENGTH:327

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08923

SEQUENCE DESCRIPTION:

GATCCTTTCA TTAATCAGAA CAGCAGCTTA TNAACTGCTT CATTTTCCAA AAGTGTTC 60
 CAAAAATCAG AAACCTAAAC ACCCAACAAC AGGAATTATT GCCATCACAT TGGCGTTT 120
 CATATGTCAC GAAGTTCACC TAGCTGGTTT TAAATACAAC TTTTCTGANC TCAAGAGTCC 180
 TTTGCACTAC TATGGGAATG CCACCATGTC TTTGATGANT AAGAACGCGT ATCACAATGT 240
 GACTGCAGAG CAGCTCTTTT TGAAGGACAT TATAGAAAAA ANACCTCGTA ATCAACTTGA 300
 CTCANGATTG ACTCTACAGA CTCGGAN 327

SEQ ID NO:7674

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08924

SEQUENCE DESCRIPTION:

GATCTCCNT AATTGGGAAT GAANGATTC ACAGACTAGA GTCTCCGATG CTGGTCATGA 60
 TGTCAAAAT AAGTTCAGAC TCATTAGGG AACTGGATAC TTGGGTCTCC AGAAGGGCCA 120
 ATGGGAGGGC CATAATTCTG TTTATTTTCA AATTGTCTTG TTTTCACCTT GTTAGAATGA 180
 NCTNTGGAAG CCCAGCCAGG GACAATGCAC CTTACAGAG ATTCTGCACT AATCTGAGTG 240
 AAGGTCTAAG GTTTGGAATC TCCCCCTCAT GGAGAGAAGC TTTGTATGGC TGTCATGCTT 300
 AGACAGTGAT TCCTGCAACT TGACCTTCAG GCTGGGAGAG GTNGAGAGCC ATGCCTGTTT 360
 CTCCTTNCTT TGCTATN 377

SEQ ID NO:7675

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08925

SEQUENCE DESCRIPTION:

GATCTGCTTC CCGCAAGACT CACAGCTGTT GGCAGGAGAC CTCAGTTTGT TGCCACATGT 60
 TCCCCTCCAG AGGGCTCTC ACAACATGGC AGTTATTTGT CCCCAGAGCA AGCAACACCG 120
 GAGGGCAAGG AAGAAGCCAT GATGTTTTTT GTAACCTAGC CTCTGAAAGT GTCATACCAA 180
 TTCTGTATTT TGTGGTTCAC ACAGACCANG TCAACTACAA CGTGGGAGAC TCCTACACAA 240
 GGCATGAATT CTAGGAGGTG GGCATTTTTA AGTGTCATCT GGAAGGAGGC TGTCACAACC 300
 TGAAGTTAA AAGCATTGAT ATTCTGAAAT ACAGCGTGTA TTACCATGGN 350

SEQ ID NO:7676

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08926

SEQUENCE DESCRIPTION:

GATCTAGAGG AGGATTTGCA GGAAGAGCTC GTGGAAGAGG TGGTGGCCCC AGTCAAACT 60
 GGAACCAGGG ATATAGTAAC TATTGGAATC AAGGCTATGG CAACTATGGA TATAACAGCC 120

02165

AAGGTTACGG TGGTTATGGA GGATATGACT ACACTGGTTA CAACAACTAC TATGGATATG 180
GTGATTATAG CAACCAGCAG AGTGGTTATG GGAAGGTATC CAGGCGAGGT GGTCAACAAA 240
ATAGCTACAA ACCATACTAA NTTATTCCAT TTGCAACTTA TCCCCAACAG GTGGTGAAGC 300
AGTATTTTCC AATTTGAAGA TTCATTTGAG GGNAN 335

SEQ ID NO:7677

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08927

SEQUENCE DESCRIPTION:

GATCCAAATT TGAAGCTCCA AGGATAGGAA AAAGCTTACT TGTGCCTGTC CTAGACAAGT 60
ACTAGAGTTT ATATTGAAAT CAAAACCTCT AAAAATAAAA ATCAGTAAGA TTAATTTTAC 120
TCATTTTCT AACACGAGTC AGTATGCTTG ANGTTCAT TGTATTGAT GTCATGTAAA 180
TTTACTGTAA AAAATAAGAA AANNITTTAA AATGCTTTAT TGATTAANTT TAGGGTTGCT 240
TTTCAGTATA CTCAGTAACT CCGAAGTCAG TGTTAACAGT ACTGAGCTTA CATAN 295

SEQ ID NO:7678

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08928

SEQUENCE DESCRIPTION:

GATCTTTTGT TAACTTTTAA ATGGCCTGAG TCCATAGAAA CTGCATCCTG AGAGGTTGCT 60
CGGCTAGAAA GCGGAAAACC GCTTCACATG AGTGCTCTAC TTTGTAATGA AAATAAACAC 120
TATTAATACA GGCAAA 136

SEQ ID NO:7679

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08929

SEQUENCE DESCRIPTION:

GATCTGGGAA CGGAAGATGA ATGAATGGAA GATGAATGGT TTCTCTCCCA GTTTTCTCTG 60
AGGCAAACAT AATTATACCT NCTCCTTTGT TCTGGGAGGT TTTTCTCTTC TCATCTCCCC 120
TCCATTACAC AAAACAGAGT TGGGTCTATA TTNACCCGG CTGGCTCTTG GAACTGCAGG 180
GAATCCTGGC TGTTTTTATT TTAAAAAAT TATGAGATTA NCTACCAAAC TTGAGATGTA 240
AGTTGTGGGT TAGCTCTCGG ATTCTGCTAG ATAACCTGGA ACAAAGCATT AACTTCTTTG 300
AGAGCTTCNN 310

SEQ ID NO:7680

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08930

SEQUENCE DESCRIPTION:

GATCTGCCAT GTAGGAATGA GACAAATACA GTTTGCTTAT GAAAGGAAAG TGGCATACTT 60
TTAAATTGGT CTACACAGAA AAGTAAAAGT AACTATTCA TTAAATAAG ATTCATTATC 120
TAATAAATAT TGAGGGAATA TTTTCCTAA ATAAAAATTT TTCTGACTGC TAACAAA 177

SEQ ID NO:7681

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08931

SEQUENCE DESCRIPTION:

GATCTAAGCT TTCTTAATA TAAAAAAAT NATACTTCTC TGAAGTGGT AATAGAGCAA 60
TAATTAAATA CATCTTCTGA TAAA 84

SEQ ID NO:7682

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08932

SEQUENCE DESCRIPTION:

GATCTGTTGG GAAAGATAAG AAAGCTATTC AGGCATCAAT TAGACGTAAT AAGGAAACCA 60
ACACCGTTTT GGCCAGATTG AATAGCGAAT TGCAGCAACA ATTAAAGGAT GTTCTTGAGG 120
AGAGAATTC CCTGGAAGTT CAACTGGAAC AACTTCGACC ATTCTNTCAC CTATAAGCCA 180
ATTGCCGTTA ACTGTGAACA TACTTGTTTT TAAGTGGTTT TGGGTTCAAA GCCAATTGG 240
AGACCTAGAC ATTCAGCTCA CTGCTTAACT CACATTAAA TTTN 285

SEQ ID NO:7683

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08933

SEQUENCE DESCRIPTION:

GATCTCAATT CTGTTTCCTC TCACATGATT ACTTGATAGC TAAGCATCTG ATTGGTTTAC 60
TGCTTTACCA CTGAGCTGAA ATGCCGTGTT TTCCATTAT TAAATCACA CATGGCTCCT 120
GTTTTNTCA CTCAGCACTT TTTCTCCATA TTCTCAAGA CGATTGTGAG TATGGTACGT 180
AACAGGAATT ACATCTGGTA AGTTGTATAG TTTGTGTAG GAACTCTATA TTCATAGCAT 240
ATTTGTGGAA ATGATACCTA TGGAGGTTTC TCACACTGGT GTGTCATTAT ACATTAATTG 300
TACAATATGC ATN 313

SEQ ID NO:7684

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08934

SEQUENCE DESCRIPTION:

GATCAGTAAT GGCAAGAGCC TTNATTCTC GAATGTTTAA AGCCTAGGAG TTCTACAAAA 60
TTGGNTTCTT TCTACAAGAN TCCCAAAATG GAATGCCTAA AGAGGTNTNN 110

SEQ ID NO:7685

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08935

SEQUENCE DESCRIPTION:

GATCCCAAAA ACCGGGCAGC CCAGGAAGGA ACTGGGGAAG GTGGTCATTG AGGGGAAGAA 60
CCAGGATGCA GGGCTGGCTC AGGGTCTGCG CAAGATGTTT GGCTGATTAA AAGTTAAACC 120
TTAAAAGAGA AA 132

SEQ ID NO:7686

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08936

SEQUENCE DESCRIPTION:

GATCCCATGC CTGAAATNTG GAAGCATATG TACAAAAATC ATTTTACGT TTTATTTTAA 60
ATAAATCATT GTGTTTGACC GTAAA 85

SEQ ID NO:7687

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08937

SEQUENCE DESCRIPTION:

GATCCTAGTC ATGACTATAC ATTGTGACAT GGTCATTACA TATGGATTAG ACCAACTGGA 60
GAATTGCCAG ACTTGTGGTA CCGATTATAT CATCTCAGTC TTGAATTAC TCACGCTGAT 120
TGTTGAACAG ATAAATACGA AACTGCCATC ATCATTTGTA GAAAACTGT TTATACCATC 180
ATCTAAACTA CTATTCTTGC GTTATCATAA AGAAAAAGAG GTTGTTGCTG TAGCCCATGC 240
TGTTTATCAA GCAATGCTCA GCTTGANGAA TATTCCTGTT TTGGAGACTG CCTATAAGTT 300
AATATTGGGN GANATGACTT GTGCCCTAAA CAN 333

SEQ ID NO:7688

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08938

SEQUENCE DESCRIPTION:

GATCTGATTG GCTCCATCAA TGACCCGGAG CATCCACTGA CGCTAGAGGA GTTGAACGTA 60
GTAGAGCAGG TCGGGTTCA GGTTAGCGAC CCCGAGAGTA CAGTGGCTGT GGCTTTCACA 120
CCAACCATTC CGCACTGCAG CATGGCCACC CTTATTGGTC TGTCCATCAA GGTCAAGCTT 180
CTGCGCTCCC TTCCTCAGCG TTTCAAGATG GACGTGCACA TACTCCGGG GACCATGCC 240

TCAGAGCATG CAGTGAACAA GCAACTTGCA GATAAGGAGC GGGTGGCAGC TGCCCTGGAG 300
AACACCCACC TCTTGGAGGT TGTGAATCAG NTN 333

SEQ ID NO:7689

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08939

SEQUENCE DESCRIPTION:

GATCCATGAA CCCTTTTAT AAGCTGTGTG TGTCCTCTGT ATTATTGTTA TTAACATTTT 60
TTTAGNATTT GCCTGTAAGT TATTAAAGAC TGATAACTGT AGCTCTTAAA 110

SEQ ID NO:7690

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08940

SEQUENCE DESCRIPTION:

GATCCAGCCA AACGAATTTT TGGCAAAATG GCACTGAATC ATCCATATTT TAATGATTTG 60
GACAATCAGA TTAAGAAGAT GTAGCTTTCT GACAAAAAGT TTCCATATGT NATGTCAACA 120
GATAGTTGTN TTTTNNTTGT TAACTCTTGT CTATNTCTCT CTTATATATA TCCCNCTNTT 180
ATCAAA 186

SEQ ID NO:7691

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08941

SEQUENCE DESCRIPTION:

GATCATGTGA CCAATTGTGC ATTCAGTTTT CAGAATTCTT TGCTATATGA TTTGGATTAA 60
TTCTATATAA TTTTGGACTT TTAAATATTA AGGTTAAAAA ATACCTGTAT CTAAAATTGA 120
TTCTGTTAAC TGTGTCTTA AACTAAAGG TATTAAAGTA TAANNTTAAA ATTNGCAATT 180
TTTTTAAAN NNTTGCAATT TTGATTCTCA TGGGGGAAAT TGGAGATAAT N 231

SEQ ID NO:7692

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08942

SEQUENCE DESCRIPTION:

GATCACAATT TAATAACAAG TAAAACTTTA CTTTGGACAA TTTTGCCACT TATTTGTAA 60
TTTGTAAGCA CACGTTTGAA GATATATTTA TGCCATTAAT ATTTTAAGGC ATGTTTAA 120
ATTTACTGTT TTCTGAAAAA TTAAATGNNN CTGGTTTGAT TGCTGGAGAT TTATTCCAGT 180
TTTNTCAAA TGTATTTTNA TNCTGTATGG TACATTTTNG NGGATTNCCT GATTAATGTC 240
ATCTTAGCAT TATATTCTGG TTATCTATAA TNNANN 277

SEQ ID NO:7693

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08943

SEQUENCE DESCRIPTION:

GATCTGGGCA AAGCAAATTG AAAACCTTCT GGAAAGGATT CACCATTTTA GATGCCATTA 60
 AAAACATTGCG TGATTCATGG GAGGAGGTCA AATTGTCAAC ATTAACAGGA GTTTGGAAGA 120
 AGTTGATTCC CNNCTCATT GATGACTATN AGGGGTTCAG GACTTCAGTG GAGGAAGTAA 180
 GTGCAGATGT GGTGGAATA GCAAAGAAC TAGAATTAGA AGTAGAGCCT GAAGATGTAA 240
 CTGANTTGCT GCAATCTCAT GNTAAANCTT TAACAGNTGA GGAGTTGTTT CTTATGGNTG 300
 CGCAAAGAAA TN 312

SEQ ID NO:7694

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08944

SEQUENCE DESCRIPTION:

GATCTTTACT GTTCAGAAAT TAGGAAAGTT CTCTGGCTGT TGCATCCAAG TAAAATTAAA 60
 ATAAAATTGG TTGCANNTT AAA 83

SEQ ID NO:7695

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08945

SEQUENCE DESCRIPTION:

GATCCCTTCC TCTGTCTCTC TAACTCCCCA GCCATGAATT TTGGCCCCAG GGAGAGGAAT 60
 AGGCAGTATA GGAGGGATGT CAGGGAACTC ACATCTGTGG TTGAATCTCA GAAACAATGG 120
 AAAGGCAGTT GTCTTTGGAT ATGGTGAAAT TGTGGTAGAG CACCCATGGT GGGGGTCTGG 180
 CAGGAGCTCT GCGGCTTCGG TAGCAGCAGT ATGAGGAGAG CTGGGCCACA TGCTTATGGG 240
 TTAGGAGAAG GTAATTTCCA GTN 263

SEQ ID NO:7696

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08946

SEQUENCE DESCRIPTION:

GATCATGGCT GAAAAAGCAG CAAATGCAGC AGGAAAAAG TTCCGAAAGA AGAAGAAATT 60
 TCGCAATTAA GATTTACCA GCAAACTGCA ACATTTTACA TTGCTCCTTT ATTTACTTAT 120
 TAAAGACGTT TGGAAAACTA AA 142

SEQ ID NO:7697

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08947

SEQUENCE DESCRIPTION:

GATCAAGATT GAGAAGACTA GATACATAAC AACCAACTGC AATGTTTGGT CCTTCATTGA 60
ATGGTTGAAC AAACCAGCTG TGAAAGACAT TTTGGGACAT ACAGACATGG ACTGAGAATT 120
AGACATAAGA AAATTATTTT GTTAACTGTT ATCATGGTTA ACAAACGGT CATATAATNT 180
GATTATGTAG AGAAGTTAAA 200

SEQ ID NO:7698

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08948

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCAGCCTC CCAAAGTGCT GGGNTTACAC GCGTGANCAC CACACCCAGC 60
CTCCATCTTT AAACTTTTAA ATGTGAAATT TCTATCATGT ACCGTTAGCC TAACAAGATT 120
TTNTTTCCTA TTTCTGACTG GTGCCTTTCC CCTTTTtagg AGCAACGAAA GCTACTCTCT 180
TAGTTATGTT CTTGTGATGT GACAAAATGT CAAGAAGATA GGAGAAGAGA ATATTTTATT 240
TCGTTGATGC TTTTGTCCC AAGTGTGACC CTAACTTAA GCTTTGTAGG AGTTGACATT 300
CTTTCATGTC CCTTCCCTTT ACTCATGCCG AAACATCAA CTGGGNCATG N 351

SEQ ID NO:7699

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08949

SEQUENCE DESCRIPTION:

GATCTGTTTC TGGGGCCTCT GCGGGTGGCG GCCTGGGGCG GCGCGACGGC TGGTGCGCAG 60
GTACANTGAT GCTGAAGTAC TATGAGCCTT CGGAAGTGT GGAGAGACTA CAANGTTTg 120
GNNNNTATGG TCCCTTTAGT TGGGCTCATA CATTTGGGGT GGTACAGAAT CAAAAGCAGC 180
CCTGTTTTCC AAATACCTAA AAACGACGAC ATTCCTGAGC AAGATAGTCT GGGACTTTCA 240
AATCTTCAGA AGAGCCAAAT CCAGGGGAAG TAGCAGGCTT GCAATCTTCA GGTAAAGAAG 300
CAGCTTTGAA TCTGAGCTTC ATATCGAAAG AAGAGATTGA AAAATACNN 350

SEQ ID NO:7700

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08950

SEQUENCE DESCRIPTION:

GATCCCGCCA GAAATGAATA GACACCGCAA GAAACAAAGC TCGAGTGAAG GCTTGTTACA 60
TAATGATTGG ACTCACAATT ATCGCCTGCT TTGCTGTGAT AGTGTCAGCC AAAAGGGCTG 120

TAGAACGACA TGAATCCTTA ACAAGTTGGN NCTTGGCAAA GAAAGCTAAG NGGCGTGAAG 180
AAGCTGCATT GGCTGCACAG GCTAAAGCTA AATGNTATTC TAAGTGACAA AGTGTTCACC 240
TGAATACCAT CCCTGTCATC AGCAACAGTN GAAGATGGGA AAAATNGAAT ATTTACCAAA 300
ATNTCTGCCA TGGTTTTATT TTGGTAACCN GATGCACAAT GTCTTTTTTT N 351

SEQ ID NO:7701

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08951

SEQUENCE DESCRIPTION:

GATCATATGT GAAGATGTCA ATTAAGCTTG CATTAAAGCCA CCTGCTTTGT AAGTGGATTG 60
ATTAATAAAT AACTTATATT TCAAA 85

SEQ ID NO:7702

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08952

SEQUENCE DESCRIPTION:

GATCCCAGGG GCTTATCTCT TCAAGTGTGG AGAGGGCAGG GTCCACGCCT CTGCTGTAGC 60
TTATGAAATN AACTAATTGA AAATTCAAA 89

SEQ ID NO:7703

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08953

SEQUENCE DESCRIPTION:

GATCCAGTGG CAATTGTAAA ACTAGCTATT TATGGCATGC TGCCAAAAAA CCTTCACAGA 60
AGAACATTTN ATGGAAAGGT TGCATCTTTT TCCAGATGAG TATATTCCNN CNGATATTCT 120
TAAGAATTTA GTAGAGGAGC TTCCTCAACC ACGAAAAATA CCTAAACGTC TAGATGAGTA 180
CACACANGAA GAANTAGACG CCTTCCCAAG ATTTGTGGAC TCCACCTGGA AGATTATCGG 240
CTATAAGAGA ATAAGATTG CAGATAATTA ACAGTTGANG TGATTGAGAC TTTCTNCTTG 300
ATGAGTTTCT CTAACCTNCA GGGTGGTGTT AACCAACTGC TACAGTTCAG CACCTGTTT 360
TNTTGTGCCG NTTN 375

SEQ ID NO:7704

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08954

SEQUENCE DESCRIPTION:

GATCACATCC TACTTCCTCA ATGAAGGGTC CCAAGCCCGT CCCC GTTCTT CCCACCGATA 60
TTTCTNGAA CGCGGCCTGG AGTCAGCAAC CAGCCTCTAG CAGCTGCCTC TACGCGCTCT 120

ACCTGCTTCC CCAACCCAGA CATTAAAATT GTTTAAGGAG AACCACACGT AGGGGATGTA 180
 CTTTGGGAC AGAAGCAAGG TGGGAGTGTG CTCTGCAGCC GNGTCCAGCT ACTTCCTTTT 240
 GGAACCTTTA AATAGAATGG GTGTTGGTTG ATTAAA 276

SEQ ID NO:7705

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08955

SEQUENCE DESCRIPTION:

GATCCACTGC CATTCTAATT GCTTTAACAA GTCATTACCA CACTACTGTT ACATCTTAAT 60
 TATGCATACA GACAGGTAGA CTTGTTTAC ATATGTGAAC TAACTAGTTG TCAAAGCAAA 120
 TGCAGATTGT ATTCTGCAAG TAAAGTCTTT TTCTCTCTGA AATTTCTAGG GATGTTCTTT 180
 AAGTGAATTT CATATTAAAA CTGAAGATTT TNGTTACAAA 220

SEQ ID NO:7706

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08956

SEQUENCE DESCRIPTION:

GATCCAAAGT AACTNAAACA GGAGCCCACA AGACGGTCTG CCAGATTGTN AGCGAAACCT 60
 GCTCCACCAA AACCTGAACC CAAACCAAGA AAAACATCTG CTAAGAAAGA ACCTGGAGCA 120
 AAGATTAGCA GAGGTGCTAA AGGGAAGAAG GAGGAAAAGC AGGAAGCTGG AAAGGAAGGT 180
 ACTGCACCAT CTGNAAATGG TGAACTAAA GCTGAAGAGG CACAGAAAAC TTGNTTCTNG 240
 TNGATTAACG AN 252

SEQ ID NO:7707

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08957

SEQUENCE DESCRIPTION:

GATCTCCTGA CCTCAGGTGA TTCACCCACC TCAGCTTCCC AAAGTGCCGG GNTTACAAGC 60
 TTGAGCTACC GCGCCAGCC AACACATCAC TTTTATCTTG CAGCTCCCGA GATTCTCTTT 120
 TCTGTGACTN TAAAAATTGT GCTNACATAT GTGTTTGATA TAAATN 166

SEQ ID NO:7708

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08958

SEQUENCE DESCRIPTION:

GATCAAAATA TTCTGGAAAA AAATAATAAA AAATAATTTG TATACATTGA AA

52

SEQ ID NO:7709

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08959

SEQUENCE DESCRIPTION:

GATCATACTN GTGATTATAA AAGNTCCTAG GAGGCTAGAA GAGCCAACCA ACAGAGAAGG 60
GAAAGCAGTC TGTTCTGAAC ATAGGGACAT AAGTTCATTC ATGCCAAGTA TCTTTCCAGC 120
ATGTTTCTCC CATTTAGAAT ATCTAGCATN TAAGGCCTTT CAATATTAAT ATAAGCCCAA 180
TATCAGCTCT TTCTCTNTGT ATTCATCTC TTTCTACTCT CCNATTTGTA TTTGGTGTTT 240
CTNTTGAAAG TGTCGTATCT GGGAGATGAC CTGCCTTATC CTGTNCTATA ACAGTTTNTG 300
NTTGCTGCTG TGTCTTTN 318

SEQ ID NO:7710

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08960

SEQUENCE DESCRIPTION:

GATCCAAGAA ATTACTGAAA TGGACAAGAA ATGTCATTAG TTAAAAGCCA TGTTATCTTG 60
AGCACACATA CAGTTAATTT GATAAAGAAG AGTATGCCTC TCAGCATTGT GAGATATATT 120
TCAGACTAAT TTGATGTTCT TTAATGTTCC CTTATTTTGG AAACACGTTT TAAATGTGAA 180
ATTAATGTCC TTCACAAAAT GTCTTTTGAA AGCACTGTTA CAGTTGTATA AAGATGATGT 240
AAA 243

SEQ ID NO:7711

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08961

SEQUENCE DESCRIPTION:

GATCTTGGCT TCTGAGGGCT CATTTGTAGA GTGGTGAGAA TAATATCTAA CTTGCTAATC 60
TTTCAGAGAC ATTCTGAGAG ACATATGCAA AAGAACTTG TAAATAAAAA GCACTGTACA 120
AA 122

SEQ ID NO:7712

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08962

SEQUENCE DESCRIPTION:

GATCCTTTAT TAAGCTTCTG ATTCATAAAA AAACCTATAA GAGACATTTG GGGGGATATT 60
TGGGGAAATA GGAAGATGGA ATGGGTAGTA GATAATGTGG TATATTTNAT TTTNCTAGAA 120
GTGATAATTG AGTTACGTAG GATAATGTTT TAATCTTAG GAGATGCATG CAGAAGTTTT 180
TTTTTTAAGT TTTGAAAAGN CATGATGTTG NCAGCATATT TNCAATAAN TATGTCCAAA 240

2153480

SEQ ID NO:7713

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08963

SEQUENCE DESCRIPTION:

GATCTGTGTC CAAAAGTGAA CTTNAGTCAG GAATGAATCA ATTCAGCAT AAACAAGCAC 60
AAAANTTTAG TCTGCTGGCT GACTGGAAGC AAAAAAGTCA AGATGGNNNN 110

SEQ ID NO:7714

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08964

SEQUENCE DESCRIPTION:

GATCTCAAAA CAATTGTTGC AGCAGGCTCC TGGCAGTCTC AAGCAGTTCA TCTTCTTGGT 60
GTACTGGTTT CCTATTGTGA TTTTATCATG GAAAATCAAT TGGCTNNNNN N 111

SEQ ID NO:7715

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08965

SEQUENCE DESCRIPTION:

GATCCTATAG GCAGAGAGTT TTCCTTTCTG ACTTTTCCC TTTGCTTTG TGTGACCACA 60
TGTTTCTGT ACCAGTCACT GGGGAAAGAA GTGAGTTTAT CTCGTTTGT TTTAAAGTTT 120
TGCTTGCTA TTTAGCATT CTTTTGGGT CTCAAGATT ATGGAACAAT AAATGTCATT 180
TAATGCTGTG TGCTATTTT GAATTCCTCA TCAGGTTTGA GAAGCGGGT AAAAATACTT 240
AGATGCTTAT CAGACTTGAA ATTATACTGA GTGGCATTGA ACGTGAGTT GTCCCAGTGA 300
ACCAGGCTN 309

SEQ ID NO:7716

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08966

SEQUENCE DESCRIPTION:

GATCCATGAA GCCAGAGCCT GGCTCTGGGT GACAGCAGGA AACGGCTGGG GAAAAGNACA 60
GCAGGGCGTC CAGCTGAGCC TGCCATTCCA GCCTGTTGCG GGGAAACAGC TCCCAATCCT 120
AGACTGTGCT GCTCCGGGAG GGCTGCTGGT GGATATTGG GCTGTTTTCA CCATATAGCT 180
GTCATGAAAA ATGCTTCCGT GAAA 204

SEQ ID NO:7717

LENGTH:121

02175

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08967

SEQUENCE DESCRIPTION:

GATCTCAGGA ATACAGTCCC ATGCAAAGAT TCTCTGGTTT TATGGCTTTT TTCCCTTTCT 60
TTACACCATC CTCTCCCATG AGCACCCATG TTTTGAATA TGAATGTATT TGAAAAATAA 120
A 121

SEQ ID NO:7718

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08968

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCCGGACT AAAAATACAA AAATNAGCTG GGCATGGTAG CCGGTNCCTG 60
TAATCCCAGC TATTNGGAA ACTNAGAACA AGAGACTTGC TTGACCCTGG GAGGTGAAGG 120
TTGCAGAGAG CCGAGGTAGT GCCACTCCAC TCCAGCCTGG NCGACAGAGT GAAACTCCGT 180
CTCAAA 186

SEQ ID NO:7719

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08969

SEQUENCE DESCRIPTION:

GATCAGCTCT CTGTTTGGGA AAATGGAGTA GATATAGTTC TAGGTACTCC GGAAGACTA 60
GATGACTTGG TGCAACTGG AAAGCTGAAC TTATCTCAAG TTAGATTCCT GGTCTGGAT 120
GAAGCTGATG GGCTCTTTC TCAAGGTTAT TCTGATTTTA TAAATAGGAT GCACAATCAG 180
ATTCTCAGG TTACCTCTGA TGGAAAAAGA CTTCAGGTGA TTGTTTGCTC TGCCACTTTG 240
CATTCTNTCG ATGTAAAGAA ACTNTCCGAG AAGATAATGC ATTTCCCTAC ATGGGTTGAC 300
TTAAAAGGAG AAGGCTCTGT TTCCAGATTN CTGTACACCA TGTGTTNAA N 351

SEQ ID NO:7720

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08970

SEQUENCE DESCRIPTION:

GATCCCAAAG AAGTAACGGG AAAAAGGAAT GTAAGGCATC TCGATAATNT TTTCATATTG 60
ATTACATGTT GAAATANTAT TTTGTATNTA TTGAGTTAAG AAAAATATGT CATTAAAATT 120
AATNTCACCT GTTCTTTTA AA 142

SEQ ID NO:7721

LENGTH:130

TYPE:nucleic acid

02176

TOPOLOGY:linear

CLONE:HUMGS08971

SEQUENCE DESCRIPTION:

GATCTTGGA ATCAAATTCA CAAACATCAG CTTGTTACAA ATCATNTAT TTATACCCTT 60
TAAAGAGTGT GGATTTAAGA TTCTTGAAAG GATGTAGNCT ATATANTTC TCATTCCNTA 120
TGGTGTAACN 130

SEQ ID NO:7722

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08972

SEQUENCE DESCRIPTION:

GATCGTTAAT TAATATCTTT CCATNCGAAG AGNAAGCAGA TTTCTTCTGA GATTTCTGAA 60
CAGTTCCTGG GTGTTTCCGG TTCTGCTTCA GTGTACTATC ACTTGCCTT GCCTCAGTCT 120
CTCCTTCCTC CGGGGCCACA GAAGGAGAAA GCCCAAAGCA TACCCATCCT GCCCTTTAAA 180

SEQ ID NO:7723

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08973

SEQUENCE DESCRIPTION:

GATCACTGTC CCGNTTCAAA TTATTCTTCA GTCCATTTC CCGGCCTATT TCAGCTGTTC 60
CTTTTCACCT AACTGTTNAG TCATTNNGT TTTCAAGCAG TGCTTNATCT CATGTCCTTG 120
AATATAGTTG TGTACTTTAT TTTNAGGTA ATAATTAGAA CAGTTCCTT CAGAGGCTGC 180
ATTTGCCTTC TTCTGCCACC TAAATATTAC TTCCCTTCAA ATCNGCCTTT GAATCATCNN 240
NTTTAAAAA AANTTANCAT GNTTTN 266

SEQ ID NO:7724

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08974

SEQUENCE DESCRIPTION:

GATCAAAGGT ACCATGACCA AATAAGAAAC AAA 33

SEQ ID NO:7725

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08975

SEQUENCE DESCRIPTION:

GATCTTCTTT TTTNTTCTGG AGCCAGACTT NCTGGGCTTN NATTGCTGCT ATGCTACTTA 60
CTTGGAATC TTGGACAAGT TACCTAATTT CTTGTTCTT AAGTTACTTC TGTTGTAAAA 120

TGATGTGGCC AATAAGTG CCTATCTCAT AACATGGTTA TTAGAATTAA ACAAGTTAAT 180
 ACTTTTAAAA TGCTTAGAAC AATTGTGGGT ACATACTAN 219

SEQ ID NO:7726

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08976

SEQUENCE DESCRIPTION:

GATCTGTCTG GNAACAGTTT ATGGAAATAT AGATATTCAT GCATCANATA AAAGTGCTGT 60
 GACCATAGAT AAACGCAGG GAAGTTCTGT NACTGTATCT ACCGAAGATG GTTGCTGAA 120
 AGCCAAGTAT CTTTATACAG AATCATCATT TCTGTCTTCT GCTGCTGGGG ATATTACATT 180
 AGGAAGTGTT CATGGNAATA TAACATTACA AAGCAAGANG GGTAGCATCA CAGTNGATT 240
 GTCTTCTGGA TGTCTAAAAG CCTCAACTAA TCAGN 275

SEQ ID NO:7727

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08977

SEQUENCE DESCRIPTION:

GATCCCAGGT TCTCATGAAC CAAATAAGTA ACTTAAA 37

SEQ ID NO:7728

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08978

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTNGGCCCTC CCAGAGTGCT GGGATTACAG GCATGAGCCA CTGCGCCCGG 60
 NCTGTACTAA GTCTTTTTTT TTTAAATTTC CTCNAAA 97

SEQ ID NO:7729

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08979

SEQUENCE DESCRIPTION:

GATCTATGAA CTCTGCCCC ACATAACTTT TAAAGCAGTA TTTTATAAAC CCCATGAAGA 60
 GCTTGCTTTT TTGTCTTTGT AATTCCTTAG GGTCTGTGAT ATATGCCAGG AAATCTGATT 120
 GAAACTAATA TGCTTTTAT TCTCCCATTA TTCCCTAAAT NGTTATATCA CAGGCACTTG 180
 CCTACATTGG GAAAGTAAGG ACAAATAATA CCCATTTAAA GTAAGTNGCC TATTATTNNG 240
 ACTGTCTTTC GTAAGCACTT GCTGAACNGC TGAAGTAACT CAGN 284

SEQ ID NO:7730

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08980

SEQUENCE DESCRIPTION:

GATCTCGCAA TGGGGAAGGC CCTGGTCGAC CAGAGGGAGC TGTACCTGGG CCTGCTCTAC 60
CCCACGGAGG ACTACAAGGT ATACGGCTAC GTCACCAACT CCAAGGTGAA GTTTGTCATG 120
GTGGTAGATT CCTCCAACAC AGCCCTTCGA GACAACGAAA TTCGCAGCAT NTTCCGGAAG 180
CTACACAACT CCTACACAGA CGTGATGTGC AACCCCTTCT ACAACCCGGG GGACCGTATC 240
CAGTCCAGGG CCTTTGATAA CATGGTGACG TCGATGATTG ATACAGGTTG TGCTGAGTGA 300
GCTGTGCTGC CAGCCATCGN AGAGGAGCCC NTNGCACGAC TTGTGGTGGG GTCCGTCGGT 360
CTTGTTTCTN TTTN 374

SEQ ID NO:7731

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08981

SEQUENCE DESCRIPTION:

GATCCGGTTG GACTCTGACA TCGGATGCCC TCAAACATAC AGAACTTCCA AACTCAAGTC 60
CAGCCATAAG CTATTTTGCC AACATGTCAG AGTAATCTGT ATTTTGTAT GTGATTTCTA 120
CTTTTATAGA CTTGTTTTAA AACAATAAAA CACATTTTAA TAAA 164

SEQ ID NO:7732

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08982

SEQUENCE DESCRIPTION:

GATCTTTCAT GAAAATTAAT TGTGCCCATG TCCAAGTTTG AATTAGAGAT ACACAGCACA 60
CAATCATTTT TGTTACCACT TTTGGAATAT CTAGCATTAG CCTTGATAGT TTTGTGTGGT 120
GTGTTTTGAG TATATCTGAN CTGTTAGTTA TATTTGGTTA ATTTATTAAA NGATGTGTGT 180
TAANCCTTAA TATTTATGCA GTGTTAAGT ATTTGGAATA TATTNGAAAT AAATTATCCA 240
GTGTTTTAGA TAAATGGTTA TTAAATTGCN NAANGTGATT CTCTAAA 287

SEQ ID NO:7733

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08983

SEQUENCE DESCRIPTION:

GATCTGTGCC GTTCAATAGG CATCGTCTCT CAGCCTGAGG GAGGCTGGAT TCTGGGTTCC 60
TGTAATCACA GGGAGGAAAA GCTTTCTTAA AAATGGACAT GTATGTGCGT GTNAGTGTGT 120
GTGTAGATTT ATAGTTTTTG GTAGTGGCAG GAATAAAAAA AATCCATCCT AAA 173

SEQ ID NO:7734

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08984

SEQUENCE DESCRIPTION:

GATCTCTATT TTGTGCCAG ACTCTGAGCT GCTTTATGAA CACCTCAATT AAATNACTTC 60
ATTGGAGTGA TTTGAGTAAT CTATCTATAG TGTAATATTT TCTATGAATA ATTTCTGTGA 120
ACCTTATTTT ATAAGTTAAT ATCTAAAAAG TGTTTATTTT CAAATTGCCA AATAAAAGGT 180
TTTATATTAG TCATTAAA 198

SEQ ID NO:7735

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08985

SEQUENCE DESCRIPTION:

GATCTAGAGA CTCATTCAAT AGCAATGTGA CCTTTTAAAT ACTTACATTA AGTAAACTG 60
CCAGTAGATT AAATCATATA TATATATATA TATN 94

SEQ ID NO:7736

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08986

SEQUENCE DESCRIPTION:

GATCACCTGN ACTCCAGCTC AGATTGCCTC TCCTGGACAT GGCAATGAAT GAGTTTTTAA 60
AAAACAGTGT GGATGATGAT ATGCTNTTNT GAGCAAGCAA AAGCAGAAAC GTGAAGCCGT 120
GATACAAATT GGTGAACAAA AAATGCCCAA GGCTTCTCAT GTCTTTATTC TGAAGAGCTT 180
TAATATATAC TCTATGTAGT TTNNTAAGCA CTGTACGTAG AAGGCCTTAG GTGTTGCATG 240
TCTATGCTTG TGGAACTTT CCAAATGTGT GTGTCTGCAT GTNTGTTTGT ACATAGAAGT 300
CATAGATGCA GANGTGTTTC TNCTGGTACG ATTTGATTCC TGTGGGATG TTTAACTAA 360
NAN 363

SEQ ID NO:7737

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08987

SEQUENCE DESCRIPTION:

GATCTTCTTT GATGATGAGA GGCGBAATAT TGTAACGTC AGCAAACTGG GTGTTACCTG 60
CATTCACATC CAGAATGGAA TGAATCTTCA AACTCTAAGT CAAGGGTTAG AGACATTGTC 120
AAAGGCCCAA ACTGGGCCCTT TAAGGTCCAG CCTTGAGGAG AGCCCATTTN AGGCCTAAAC 180
TGAAAGGAAA TCAAGAAGGC ATTTTCAGGT GCATTTGTAA TTTATTAAAG TTCATCTGTG 240
TGTGACAGAA AAAAAAGTA AA 262

SEQ ID NO:7738

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08988

SEQUENCE DESCRIPTION:

GATCTGTGCC ACATGGAGGT TTTGGGATGG GATTNNAACG CTACCTGCAG TGCATCTTGG 60
GTGTTGACAA TATCANAGAT GTTATCCCTT TCCCAAGGTT TCCTCATTCA TGCCTTTNAT 120
AGCTGGAAGA TTGGTTAAGG CAAAGCACCC CCCATGGCAG AGACACTGCA CATGATTGTN 180
CATACAGCAG AATGCATGTT TGGATTNTAG AAATGCAGAT TTCAATATGT AATTGTTGTG 240
CCATAAGATA TCATAGNAAA NNTATAAGTG GTTGTNCTTT TCTTAGAAAG TTGAGGGTAT 300
TTCACGTAAG GATGAGCTCC CGCAAGNNGA GGTACTTNTT AGCANGGGA CTCTCAATCG 360
N 361

SEQ ID NO:7739

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08989

SEQUENCE DESCRIPTION:

GATCTTGATG TGGGTGATAG TTTTACTTAT GTACATCGAT ATACATCTAT TAAAAACAT 60
GTACATTTAA ATTGTTGCAT TTTATGTATT TAAAAATTAT TGAGTANTCC TTCTGTATGT 120
ATTATTAAAG AGAATATAGC AAA 143

SEQ ID NO:7740

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08990

SEQUENCE DESCRIPTION:

GATCATAGAG TTTGGCTGGG GAGGGGGGCA GTTTTAGAGG CTTCCACTTG GTGTTCTCA 60
GAATGATATC TCTTACTCCG GGGGCCAAGG TAGGGGTTAG CTTTGTCTCT CTTTGTAGTT 120
TAGATTGTAT CTCTTGCCCT GTTCAAGTTC ACAAATCTTT TTGTGTATAC ACATATGTAC 180
ATGAAATNA TGTTCATGCT TTAAATTATT TTACCCTTCA TTATTCATT TTTNATAGTT 240
CTCATAGCTA TGTCTTTCAG TTTACTAATC TTTTTCAC AGTGTTTAAT CTGTCATTAA 300
ATCCCATCCA AAGTATGTTT TCTCTCAGAA GAN 333

SEQ ID NO:7741

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08991

SEQUENCE DESCRIPTION:

GATCCTTGTA CACTGTTTAT ATGTGCAATA AAATGCATGG CCAGCTGACA GTATCGTCAG 60

TGGACAGAAT GTATATAGTG CAAATATCCT TCCTTTTATT ATTTAACAGC CATTAAAATC 120
 TTGGATTGTG ACAA 135

SEQ ID NO:7742

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08992

SEQUENCE DESCRIPTION:

GATCCCAGTT CACAATTATT CACCGGGTAT TTAGTTATTC ANAGGCTGCT CTGCTGAGAA 60
 GNTGAACAAA TTTCTTGTCC AAAACAATGT ATTTCAAACG TGCCGCTCGG GCCTTTCCCG 120
 TATTGCTCAC TGGTGCTGGG AAGACAACAC TTCTGAACTA TATTTTGACA GAGCAACATA 180
 GTAAAAGAGT AGCGNNNNCT TTAAATGAAT TTGGGGAAGG AAGTGCGCTG GAGAAATCCT 240
 TAGCTGTCAG CCAAGGTGGA GAGCTCTATG AAGAGTGGCT GGAACCTAGA AACGGTTGCC 300
 TCTGCTGTTT AGTGAAGTGA GGAATGTGTT TTN 333

SEQ ID NO:7743

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08993

SEQUENCE DESCRIPTION:

GATCCCACT GTATAACATT CTGAAAAAGG CACAACTATG GAGACAATAA AAAGAACAGA 60
 GTTTTGGATG AAGGGAGGGA TGAACAGGCA GAATACAAAC AAATTTTAGG GCAGTGAAAC 120
 TATTATTATG ATACTTTATG GATATAGAAT ATTATGCATT TTCAAACA CATAGAATAT 180
 ACAACATGAA GAATGAATGC TAATGTAAAC TGGATTTN 219

SEQ ID NO:7744

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08994

SEQUENCE DESCRIPTION:

GATCTTGGGC CACACATGAA AATACACTAA CACTAATGAC AGCTGATGAG ATGCTTAA 59

SEQ ID NO:7745

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08995

SEQUENCE DESCRIPTION:

GATCAGAGTG ATGCTGGAAC TCAGTGTGCA TAAAATTTCA GTCAGTGAAT ATCACTGAAC 60
 GTCATATACT ACTTGGTATG TGACTTTGGT TTGTGTTAAG AAAGCTTGTA TATAATATTT 120
 TTNGCCATAG TAAGTGAGAA ATTGTCCTTA ATCATGCCTG TTTGATGGTA CTAGGAAAGA 180
 AAGGGGTAGA GATTAATTCT TGCACAGTAT AAGCAACAGT GCAACAACT ATGCCATTN 240

CCTTTTNCCT CTTACTTGAA GGCAGAATCG CAAAACGTTT GANATGGCTT TCCTAAACTA 300
CTCTACTCTG GTGNGAGCTC ATTTACCACA NGAAGCCTTA TAACACCGTT TNN 353

SEQ ID NO:7746

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08996

SEQUENCE DESCRIPTION:

GATCAGGTGA TTGCCTTTCT CAGCTGTCAG TTCTCTAATT TCAGGCTTGG TAGCTTGTAG 60
GAACTGAAAT TGCAATTAAA ACCTTTATAA ACTCAAATA AATCATGAAT TACAGAAAAA 120
GTCCATTCTT CCAAACTTG ATGTTACCAC ACTTACAAGT TTAAAATATG AAGTCGACTG 180
TTTAAAGGAT TCTGCATATA TTCTAGTGTG CACATTTCAGA AACATTTTTC TTGGAAAAAG 240
TACCCAACAT TTTTATAAC TGCACATATT AATTTATTGC CAGAATAAAT TGCATTGCAT 300
GCTAAATTAA NGTCAGATAN TTCNAAA 327

SEQ ID NO:7747

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08997

SEQUENCE DESCRIPTION:

GATCATGTAA ACTTGCTGTT TTNGTTTTN CCTGCCGGGT GTTGATGTG TGGTGACTTG 60
CGGATTTATG TTTCAGTGTA CTGGAACTT TCCATTTTAT TCAAGAAATC TGTTTCATGTT 120
AAAAGCCTTG ATTAAAGAGG AAGTTTTTAT AAA 153

SEQ ID NO:7748

LENGTH:41

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08998

SEQUENCE DESCRIPTION:

GATCTTAATT TTGTTTTTGG TTAAAAATAG TGTTTCCTTT N 41

SEQ ID NO:7749

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08999

SEQUENCE DESCRIPTION:

GATCTATCTA AATGCCGATT TGAGTTCGCG AACTATGTGA CTGCGTTTTT AATTCCTGTA 60
TTNANACTAT TTAATCCTTT CTAATTGTCG CTAAATATAA TTGTTTTAGT CTTATGGCAT 120
GATGATAGCA TATGTGTTCA GGTTTATAGC TGTTGTGTTT AAAANTTGAA AAAAGTGGA 180
ANCATCTTTG TNCATTTAAG TCTGTATTAT AATAAGCAAA ANGNTGTNT GTATGTNTGT 240
TTNATATAAC ATGACAGGCA CTAGGACGTC TGCCTTTTTN NGGCAGTNCC GTTAAGGGN 299

SEQ ID NO:7750

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09000

SEQUENCE DESCRIPTION:

GATCAATTAG ACATTTTGAA AATAATTTAA AGTGTTCCT TTAATGTTCT CTGAAAACAA 60
GTTTCCTTTG TAGTTTAAAC CAAAAAGTG CCCTTTTGT CACTGGATC TCCTAGCATT 120
CATGATTTTT TTTTCATACA ATGAATTAAA ATTGCTAAAA TCATGGAAA 169

SEQ ID NO:7751

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09001

SEQUENCE DESCRIPTION:

GATCATTTAA TGAATCCTCA AGGACTAATG AAATAAATGC TAGACTGCTG AAA 53

SEQ ID NO:7752

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09002

SEQUENCE DESCRIPTION:

GATCCTGAAA ATAAACTAA CACTCCAGTA TTTGTCATT GTTTTTCGCA ATTGAGCTAT 60
CTGAAACTG TTATTCCTAA GTAATGTTCA AAAATGATAA GTAATCTGGA TACCTTTTC 120
TTATACTTC TCCTAGGAAA ACTTTAAAC TTAAAAAGG CAAACCTACC AATAGGAATA 180
ACANATTAAG TGTCAAGAGA GTATATCCAA TATTAGGATA TAANTGTATG TGTCTCAAGT 240
TTAACTCTAC AN 252

SEQ ID NO:7753

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09003

SEQUENCE DESCRIPTION:

GATCTACAAA AAATCCTGG AGCCATATAT ATACCCTCTG GTNTCCCAT TCGCTAGTCG 60
TATATNGCCT NAGAAAGCAA TACAAGAATC CAATAATACA AACAAAGGCA NAGTAACTT 120
TAAGGGNGCA GACATGAATG GCTTACCAAC AAAAGGACCA NCAGAAATCT GTGATAAAAA 180
GAAAGACTAA AGAAATTTTC CTAAAGGACC CCATCATTTA AAAANTGGNC CNGGNNN 237

SEQ ID NO:7754

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09004

SEQUENCE DESCRIPTION:

```
GATCTTCCCA AACCCAGAGA AAGACATCAA TTTCCAAGAA CAAGAAGGTT ATCAAACACC 60
AGGCAGATTT AACCCAGAGG ATACTACCTC AAGGCATTTA ATAATCAAAC NNCCAAAAGT 120
CAAGAATAAG GAAATAATCC TAAAAGCAGC AAGAGAAAAG AAACAANTAA TATACANTGG 180
AGTTCCACTA TATCTGGCAG CAGACTCTTC ATTGGAAACC TTATAGGCCA GGNGNGAGTG 240
GCATGACACA TTTAANGTAC TGGN 264
```

SEQ ID NO:7755

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09005

SEQUENCE DESCRIPTION:

```
GATCCAGAGC TGTTGCCTGT GACAGCGGTT TCTNTGGATG TCAAAGGCAG CTGCCTGGTT 60
GCCCAGCTTG CTTCTCGACT GGTGCCCCCT ATGGGTGGGT GTGCGATGGA AATNTGTTCC 120
TGCCGGAGTC TGAGGCACCA GGGTGTGCTC AAAGGCTGGC CCTGGTGGTG GACTGGCACC 180
TGTGCAGAGT GCCGTGTGCT TGTGGTGCGC CATCTGAAGC AAGAGTCCAG CGTTCTGCCG 240
TGTCTGTCCC CCACCATGCC CCCTACAGGC GGTACTGATG GCGCTN 286
```

SEQ ID NO:7756

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09006

SEQUENCE DESCRIPTION:

```
GATCCTTTTT CCTTCAGCAG CATTTCTTAC TGGCTGTGGC TGGAATCTGC CTTAATCAC 60
AGCTGTCACC ATTCTCACGT GATTCTTGTG AGACTCTTTT TGGTTATAAT TACTATTAA 120
TATTTAGACT ATTTTACTGA GCAGACTTTA TAAATGAGAT ATCTACAAGG CACTTAAAGT 180
GTTACAGATG TTTTACCTTA AGANTTATTT AAGTNGTGTT GGGTTAAGAC AGTTTTCACT 240
GTACCGTAAA TGTGTGTTT TCAGAAAAAG ACAAACGAT GGTGCTGACT GGTTTTCTGT 300
ATATNGCACA ACAGTCCTCA AATACACTGG ATGTATGGAA CCTNTTCCTT NCATCCAGGC 360
AGCATTTTTN TTNCNCTCTN CN 382
```

SEQ ID NO:7757

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09007

SEQUENCE DESCRIPTION:

```
GATCATCTTT GAGTAGCACT GTTTTGGGGC CCTCGGTCTC TCTGAAGACC CTAGCAGAAC 60
TGATACCTAC CTGTATCTCT TGTTCTCTCC TATTTGAGTT TCACTTCCAG AGAACTTGTT 120
CTTCAGCAAG AATGTGTCAC TAGTAAGGAC ATCTCTAGCA TTTCTCTAGC CTTCTTTTC 180
TGCTGCTCAA AAATAATCGT TACAAAGCTT AGGTTTAAGC TGTATATGAA ATATTTATGC 240
```


GA CTCTCAAA CTTTAAAGGA GTTGCTCCTT TGTTCACAAA TTAAATGTGT TAGATAAA 298

SEQ ID NO:7758

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09008

SEQUENCE DESCRIPTION:

GATCATGGTC TTCAAAGATG TAAATACAAG AGAACCAAAG TTATCCGGG CAGTCCAGA 60
TTCAGAACGT GTTATTCCTC CCAGAACGAC AACGCCATAT TTCCTTTGAG GCCTTCGCCC 120
ATCCTGCTGA CCCATTTTNN TGCCCTCTTC TTACCCCAAT TTTNTGTAT TACCCTCTAC 180
AATATACTTT TNATTGAGCA CTTTGCTGCT GAAATGCTGC CTCTTGCCTT TTTTTTTNA 240
AATTTTAAAT TATCTAAATT TATGGTTTGT GGTGGTGTCT ATNGCAAAGT TN 292

SEQ ID NO:7759

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09009

SEQUENCE DESCRIPTION:

GATCTGTAA TGAAAAGTGC TGGAATACCT CAACCAAGAA AAGGCAGAAA AGGGAAGGGA 60
GCATATTGCT AAGAGAGCAA TGGAAAATAT GTAAGCTGCT TTCATTAATT ACCCTACTTT 120
CATTCTCCC ACCCAAGCA AATCCCAACA TTTCTCTTCA GTGTGTTGAC TTCTATCCTG 180
TTAACTACTGT AATATCTTTA AATGATGTAC AGGCAGATGA AACCAGGTCA CTGGGGAGTC 240
TGCTTCACTT CCTCTGAGCT GTTATCTTGT GTATGGATAT GTGTAAATGT NGGTGACTCC 300
TTGATAN 307

SEQ ID NO:7760

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09010

SEQUENCE DESCRIPTION:

GATCTCTGAA CATGAAAACC AAGGTGGCTA TTTTCAGGTT GCTTTCAGCT CCAAGTAGAA 60
ATAACCAGAA TTGGCTTACA TTAAAGAAAC TGCATCTAGA AATAAGTCCT AAGATACTAT 120
TTCTATGGCT CAAAAATAAA AGGAACCCAG ATTTCTTTCC CTAAA 165

SEQ ID NO:7761

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09011

SEQUENCE DESCRIPTION:

GATCGATGAC GCAGGTCCTT CCAGTGAAAT GAATGGTCTC AAAAAATGGA GAGGATGTGC 60
TGGGGATTGA GAAGGCAGGG TAGCCAGAAA GAAGCACAAA TTACCCCCAC CATAAGCTTC 120

ACAGAATTGC TGACGCTAAC GGCCATGGGT GAGATTTTGG CAATAAGTGT CAGCCTGATG 180
ACAGATACCA CAGACAGTTG CAAAAATGTC CAAGTTTCTC CTGAAGTTTT CTGGCAGGGC 240
AGTGGGGCTCC ATCCTTAGGA GTGAATCAGC TTTGGTGAGT ATCGTGATTG AACAGAGCCT 300
TAACACCAGG GCCCCCTTAA CTCCGCACTC CTTN 334

SEQ ID NO:7762

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09012

SEQUENCE DESCRIPTION:

GATCGCTTGG ATTTTAAAGT TCATTGGAAC TACCAACTTG TTTCTAAAGA GCTATCTTAA 60
GACCAATATC TCTTTGTTTT TAAACAAAAG ATATTATTN GTGTATGAAT CTAAATCAAG 120
CCCATCTGTC ATTATGTTAC TGTCTTTTTT AATCATGTGG TTTTGTATAT TAATAATTGT 180
NGACTTTCTT AGATTCACCT CCATATGTGA ATGTAAGCNC TTAATATGT CTCTTTGTAA 240
TGTGTAN 247

SEQ ID NO:7763

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09013

SEQUENCE DESCRIPTION:

GATCCTTCCT GAGCGTTTCC TGGCAGTTTT AAAACGAAAA ATCAGTGTTA AGTTTGATGC 60
AGTTATTGGA TATAAAATGA AAGCGCAATA AGCACCTAGT TTTCTGAAAA CTGATTTACC 120
AGGTTTAGGT TGATGTCATC TAATAGTGCC AGAATTTTAA TGTTGANCT TCTGTTTTTT 180
CTAATTATCC CCATTCTTC AATATCATTT TTGAGGCTTT GGCAGTCTTC ATTTACTACC 240
ACTTGTCTT TAGCCAAAAG CTGATTACAT ATGATATAAA CAGAGAAAATA CCTTTAGAGG 300
TGACTTTAAG GN 312

SEQ ID NO:7764

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09014

SEQUENCE DESCRIPTION:

GATCTGCCTG TCCGGGCTGG GACAGAGACT CCCCAAGNAC CCCATTCTGC CTCCTTCTGG 60
GGAAATAAAT AAGTGTCTGT TTCAGCAGCT AAA 93

SEQ ID NO:7765

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09015

SEQUENCE DESCRIPTION:

GATCTGGCTA AGCATCTTCC TCATGCTTTC AGTAAATTGG AAAACCCACG GAGGTAAAT 60
 ATTACCTTTT TTTTTTAAA CTTAAANCA TNCTGTTTAT TTTTNATTA CATTNCCCA 120
 TATGNGNGGA ATN 133

SEQ ID NO:7766

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09016

SEQUENCE DESCRIPTION:

GATCGTNAAG ACCCAAATG GACTTATTTT AAGTCACTTG CCAAATGGCC CAACTGCTCA 60
 TTTTAAATN AGCAGNGTTC GTCTTCGTAA AGAAATTAAG AGAAGAGGCA AGGACCCAC 120
 AGANCACATA CCTGAANTAA TTCTGAATAA TTTTACANCA CGGCTGGGTC ATTCANTTGG 180
 NCGTATGTTT GCATCTCTCT TTCCTCATAA TCCTCAATTN NTCGGNAGGC AGGTTGCCAC 240
 ATTCCACAAT CAACGGGATT ACATATTCTT CAGATTTTAC AGATACATAT TCAGGTGTGN 300

SEQ ID NO:7767

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09017

SEQUENCE DESCRIPTION:

GATCAAGTA GCCACAACAT TCTCTTAAGC CAAAGNCCAA TCCAGAACAA NGCCCTAACT 60
 CTCTTCAATT CTATGAAGAC TAAAAAGTA AGGAAGCTNC AGANN 105

SEQ ID NO:7768

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09018

SEQUENCE DESCRIPTION:

GATCGTCAAA CCATTCATCC TTTTAAAGGT TTATTTGAAG ATGCTGTAA AGTACAGAAT 60
 TTTGTGTACA GGTAGATTTT TCCGTCCCTC ATTAATAGTG CCTTCTTAAT TAATACAGNC 120
 TGGTGTAGC TATAACAAGG CNCCAGTAAG GCCAAAGAAT CCCAAGTTCT TTGTGGAAAA 180
 ANAAAAAANN NCTTTTGGGG NCAGNTTTC CCTTCN 216

SEQ ID NO:7769

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09019

SEQUENCE DESCRIPTION:

GATCCTCCCG TGTGTGGTTG GAAACTTTT GTTTTTTGGG GTTTTTTTT TCTGAATAAA 60
 AAAGATNCTA CTAAG 75

SEQ ID NO:7770

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09020

SEQUENCE DESCRIPTION:

GATCTGTGTC TTAATTGTTT AGTTAGAGTG AGAAGTTGAC CTATGATTCT TTTTAAATT 60
TTATATTTGG AACAAAGCTG CAAGTTATGG TAANGTACTG TACTGNGNGA NGTATTATGA 120
TATTTAATGC ATCTNTGGCT TAACACTTGT GAGAGTTACC AGCTTGAAAA TGATGGTGTT 180
GACTACCTCT TGANTCACAT CTATCAACCA CTGGCACCTA CCACCAAGCT GGCTTCAATT 240
AGTATGTGTT GCTTTTGGT ATTAACANCT AACCGTACTA GAGACCAAAG TGAACCTGA 300
TNTTTAATAT GTNTTAATA ATGGTGGTTT TATCTAGTGG N 341

SEQ ID NO:7771

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09021

SEQUENCE DESCRIPTION:

GATCCAAGCC TGGAGTTTGC AGAAGATACT GTCCTAATAA GCAGGCATTT CTAAACCAAG 60
TATCTAAGCC TAAGCACAGC TTGTCCTGGG TGAAATGTCT GCCACAAAAG ATAGTTTCTC 120
CTAGCTCAGA CTTAACCATT TATAAAGGTT GGTAATAAC TGGCAGTGAC AACAAATTGA 180
CTTTTAATT TTTTATTTG CATTATTCCA ATAAATGAAA ATCTGTCAGA GTTCTAAA 238

SEQ ID NO:7772

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09022

SEQUENCE DESCRIPTION:

GATCTGCCCC CACTGTCTCTG TGAGGACAGC TGAGGCCAAG NAGTGAAAAA CCTATTACTA 60
CTAAGAGAAG GGGTGCAGAG TGTTTACCTG GTGCTCTCAA CAGGACTTAA CATCAACAGG 120
AAA 123

SEQ ID NO:7773

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09023

SEQUENCE DESCRIPTION:

GATCCAGGTA GAATTTTNA ACCAATCAAA TGAAAAAAC AAACAAACAA AAAAGGAAAT 60
GTCATGTGAG GTTAAACCAG TTGTCATTCC CCTAATGTGG AAAAAGTAAG AGGACTACTC 120
AGCACTGTTT GANGATTGCN TCTTCTACAG CTTCTGAGAA TTGTNTTATT TCACTTGCCA 180
AGTGAAGGAC CCCCTCCCCA ACATGCCCCA GCCCACCCT AAGCATGGTC CCTTGTACC 240
AGGCAACCAG GAAACTGCTA CTTGTGGNCC TCACCAGAGA CCAGGAGGGT TTGGTTAGCT 300

2153480

CACAGGACTT CCCCCACCCC AGANGNTTAG CATCCCATAC TAGACTCNTA CTCAACTTNN 360
N 361

SEQ ID NO:7774

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09024

SEQUENCE DESCRIPTION:

GATCAAGCGA ACTAATTTTA GGTGAAATC CGAATAAAAG AACTTTACTG GAAA 54

SEQ ID NO:7775

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09025

SEQUENCE DESCRIPTION:

GATCTGTATA ATGTACATTC AATATAGAAA GCTTTATATA TTTAAAAGNG TATAGAACAT 60
TTNACAATTA CACTCATCTT TAACATAACA TCTTGACATC CATTTTNAAA TTTTTTGCA 120
CAAGCTCCTT TNCATTCAAT TTGGTAAAGC CAGTTATACA TACTANTGTG TACTGTGAGC 180
TTTCAGAN 188

SEQ ID NO:7776

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09026

SEQUENCE DESCRIPTION:

GATCACCTGN AGGTCAGGAA GTTTGAAAAC CAGCCTGGCC AACATGGCAA AACCTGTCT 60
CTACTAAAAC AAAAATNAGC CAGCATGATG GCAGGCGCCT GTAGTCCNNN CTATTCAGGA 120
GGCTGAGGCA GGAGAATCGC TTGAAGTGGG AGAGGGGCAG AGGTTGCAGT GAGCTGAGAC 180
TGCATTCCAG CCTGGGCGAC ACAGCAAGAG TCTGTCTCAA A 221

SEQ ID NO:7777

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09027

SEQUENCE DESCRIPTION:

GATCGTAGGA ATTGAAGGAG TGTCCCGCCT TGTGGCTGAN AACTGGACAG TGGCAGGGGC 60
TGGAGATGGG TGTNTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGCGCG CGCGNCAGTA 120
CAAGACCGAG ATTGAGGNAA ANCATGTCTT CTGGGTGTNA CCATGTTTCC TCTCAATAAA 180
GTNCCCCTGT GACTCTCAAA 200

SEQ ID NO:7778

02190

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09028

SEQUENCE DESCRIPTION:

GATCCTGGTC CCCTCCCTGC TGGACCTGCC ACCCAGAGCT TCCTGNCTAG TCCCACTGGG 60
 CTGGCCACCC AGGCCTCTGA CCCAGGCTGC TCTNCGGCCC CTTCCTCCTC CTNTTCCTGC 120
 TCCAACCTCT GTCCACCTGG GGACAGTCTG TGCCTGTAGC CTNATGACCC CAACCCAGCC 180
 CCAGGCATGG CTAACCCCTG ACTGNTTGCC TCATATTTAA GCTGCTGNTN TGGCCAAGTG 240
 NCTAATTTTA ACCCAGACCT NAATAAAGAC ACNTNTTTGT ACCAAA 286

SEQ ID NO:7779

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09029

SEQUENCE DESCRIPTION:

GATCTGATTT TTCATAAAAA ACATTTGTGA ACCTTCGGCA TAAATGGGT AAGGTGCCAT 60
 CCCTGAAACT GCAATGCAGA TATGTTTCAGN TAACTTTNAT TTNTTAATTA AAAATAAATC 120
 TTTCAA 127

SEQ ID NO:7780

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09030

SEQUENCE DESCRIPTION:

GATCTGANTT TTCATAAAAA ACATAAANTG ACCTTCGGCA TAAATAGGT AAGAAGCCAT 60
 CCCANAACT NCAATGCAGA TATGTTTCAGN TAACTTTTAT TTTN 105

SEQ ID NO:7781

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09031

SEQUENCE DESCRIPTION:

GATCGGCGCC GTTACAGACG TGGCTACTAT GGAAGGCGCC GTGGCCCTCC CCGGAATNCT 60
 GGTGAGATTG GAGAGATGAA GGATGGAGTC CCAGAGGGAG CACAANTNNN GGGACCGGTT 120
 CATCGAAATC CAACTTACCG CCCAAGGTAC CGTAGCAGGG GACCTCCTCG CCCACGACCT 180
 GCCCCAGCAG TTGGAGAGGC TGAAGATAAA GAAAATCAGC AAGCCACCAG TGGTCCAAAC 240
 CAGCCGCTG TTCGCCGTGG ATACCGGCGT CCCTACAATT ACCGGCGTCG NCCGNTTCCT 300
 CCTAACGGTN CTTACANGT N 321

SEQ ID NO:7782

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09032

SEQUENCE DESCRIPTION:

GATCCACTGA GTTAGTTTCA TTGGGGCGGG GGAAAGAACT GGAATTAAAC TTGTTTAATC 60
CTTAA 66

SEQ ID NO:7783

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09033

SEQUENCE DESCRIPTION:

GATCCTCCCA GCTGTCGGCC GCGGACCCGG GCCGCGTGTG AGCGGCTTTT GCACCTCCTA 60
TCCCCAGGGT CCGCCGAGAG CCACGATTTT TTTACAGAAA ATNAGCAATA AAGAGATTTT 120
GTACTGTCAA A 131

SEQ ID NO:7784

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09034

SEQUENCE DESCRIPTION:

GATCACAAAT GCATTTTCA ATCTTTACAA TATGAAATNT ATTTATAACT TTAGTTCCAA 60
AATGGACTCT GTAATGCATT TGCCCATATT TTTAGTCGTA ATGGATGTGA TTATATTNA 120
TTGAATTAAA AATCTAACAG AAA 143

SEQ ID NO:7785

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09035

SEQUENCE DESCRIPTION:

GATCTTAACT TTAATAAGGC AAAACAAAAG CTTCGAGCTG TTGCGTGTGT AAGTCTGTTG 60
TGTGGATGTN CGTGTNTGGT CCCCAGCCCC AGACTGGATT GGAAAAGTGC ATGGTGGGGG 120
CCTCGGGGCT GTCCCACGC TGTCCTTTG CCACAAGTCT GTGGGGCAAG AGGCTGCAAT 180
ATTCCGTCCT GGGTGTCTGG GCTGCTAACC TGGCCTGCTC AGGCTTCCCA CCCTGTGCGG 240
GGCACANCCC CAGGAAGGGA CCCTGGACAC GGCTCCCACG TCCAGGNTTA AGGTGGATGC 300
ANTTTCNGNA ACCTCCANTC TTCTGTGTAG CANCTTTAAC CNAGN 345

SEQ ID NO:7786

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09036

SEQUENCE DESCRIPTION:

GATCAGCTCT CTGTGAAAAT GGACCAATCA TCAGGATGTG GGTGGGGCCA GATTAGGGAA 60
 TAGAAGCAGG CTGTCTGAGC CAACAGTGTC ANCATGCTTG GGTCCCCTTN CATGCTGTGG 120
 AAACTTTGT CTTTCGCTCT TCACANTAAA TTTGCTGCT GCTCAAA 167

SEQ ID NO:7787

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09037

SEQUENCE DESCRIPTION:

GATCCTGGAC AAAGCTTGGC TGCCGGCTTC ATTTATTCCT GCTGATGGCT GAGAAGCATC 60
 TGT TTTCCAT CCCACTTGGC TGTCCCAAGT TTTGTTCCAT TTTNAAAAA TTTGTTGTAA 120
 ACTGCATGTT TTATAAATA AAAATAAAAT ATCGTTTGTG ATTTATCTCA AA 172

SEQ ID NO:7788

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09038

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTTNGGCCT CCCAACACAA TTTATATTTT TGANGGTCCT TTTATGTGTA 60
 TTGTGCCATA TGCTTCTNAC ATCAGCCCCA ATAAATGCTT TAGGCGTTTT ATATTATCTA 120
 CCACTATTAC ATGCTCTCCA TCTCCAGACT ACCCATTCTT GCCATTGCCC TCATAGGGGC 180
 CCATTCTGAT AATTCTGGAT ATGTAGAAAA ATAAATCCTG TTTATGTGTT TAAATAAATA 240
 GATGTATACT ATAAA 255

SEQ ID NO:7789

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09039

SEQUENCE DESCRIPTION:

GATCCCTGAC AGCAAAAAGT TTCTTTTCTG AGGCTGCCAT ACTGCCACTG TCCAGGTGGA 60
 GACTGAGCAA AGGAAGTCCT GGGCTGTGCC AGCTCCCAGA GCTTCGGAAG AAAGAGCAGC 120
 AGCTCTCTCC CTGGGAACCA TCAGAGAATT CTGTTGATGT GTTCTGTGTC TGTCTGTCAC 180
 CTGGTCACGA GCTTCTACCA CCTTTGCAAT TGTCATTAT CTTTCACTCC CTGAATAAAG 240
 TATCTATGCA TATAAA 256

SEQ ID NO:7790

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09040

SEQUENCE DESCRIPTION:

GATCTCCAC CTTTCGGGCC ATGTTGCCCC CGTGAGCCAA TCCCTCACCT TCTGAGTACA 60
GAGTGTGGAC TCTGGTGCCT CCAGAGGGGC TCAGGTCACA TAAACTTTG TATATCAACG 120
AAA 123

SEQ ID NO:7791

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09041

SEQUENCE DESCRIPTION:

GATCTAGCTT CAGAGGAAGT CTACACCCCA TTCCCTTCTG CTTACAATGT ACCCATGATA 60
TGTGTTTAGC NNNGNAATAC TGTAACAGGA CATCACATGG AAAAATCAAA GCAGCTGGCT 120
CACTGTATTT AACTGAAAAG AATGCCTACA GATTGGATAT TTAATAGGGA AAATTAAGGC 180
ACTTTAATAA CANACTTCAT TATGTGAACT TGTTGAATAT TNNCATA CAN TATACCTTGT 240
ATATTANTGC CATAGTTTTT NGAAACACTA ATTTAAACAA CANATTTNAG GGGTGCTGGC 300
ATATCCAGN 310

SEQ ID NO:7792

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09042

SEQUENCE DESCRIPTION:

GATCCGAAGG CTGCGGGCAG CGTNTNATCC CGTGGTTTAA TAAAGCTGCC GCGCGCTCAA 60
A 61

SEQ ID NO:7793

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09043

SEQUENCE DESCRIPTION:

GATCTTGGTC TTATTTGCAC AGTTTTTGCG TCTTGTTTGC TTCTTGCATC TGATTAAC TA 60
GAATATTTCT NTTTCCCCCT TTAAATTTGT GATGTCACCTT GACCCCATTT ATGTGTAGGA 120
GCACTACNCC ATTGGTTTCC AATACTGCAC ACATAAGATA CATACTTG TG CAGAAAGT 180
ATCTTCCTCC AGGCTTGTA TACCCTTCAC ATGGAAGATT AATGAGGGAA ATCTTTATAT 240
TCTGTATAAA ANCAAANGCA AATTTATATA CTAAAATCAT TTGTCTAAAA NTTAAGTNG 300
TTTTCAAATN 310

SEQ ID NO:7794

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09044

SEQUENCE DESCRIPTION:

GATCAGTAGA AAATGGACAT CAAGTTTGAA CAGATAAATC ATGGACAGCC TTATTGTGAT 60
 TGAATGCTT GTAGGTTCTG TGCCAATTTT CCACCACTGT GTACTTTGTT GCTATTAA 120
 ACTGTATCAA CTCTAACGGA AGAATAAATT ATTTGTGATT TAAA 165

SEQ ID NO:7795

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09045

SEQUENCE DESCRIPTION:

GATCCGAGAG TNAAGGAAGT TCCCTGTNTT CCCCCTCCTT TTCCACCAGT NTCGCCTCTG 60
 GCCTTCTCTG GCCACTCCTG GGAGGGACTG CCTCACCACC CCTGTCCCGC TGCCAGAAAT 120
 ACACCCACAA TAAAAACCTG AAAACCAAA 149

SEQ ID NO:7796

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09046

SEQUENCE DESCRIPTION:

GATCCAAACT AACTGCCCAA GCACTACACA GCTGGACCCT GNTTCACCNT AACCCGCANC 60
 TAGCAATCAA TACAGCTTCA TTATCTGAGT TGCATAAA 98

SEQ ID NO:7797

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09047

SEQUENCE DESCRIPTION:

GATCTNTAGC CTCACCTGN TCTCCTTCTT CCTACTGGCT GCTCAGGTGC TCCTGGTGGA 60
 GGGGAAAAAA AAAGTGAAGA ATGGACTTCA CAGCAAAGTG GTCTCAGNNC AAAAGGNCAC 120
 TCTGGGCAAC ACCCAGATTA AGCAGAAAAG CAGGCCCCGG ANCAANGGCA AGTTTGTCAC 180
 CAAAGACCAA GCCAACTGCA GATGGGCTGC TACTGAGCAG GAGGAGGGCA TCTTTCTCAN 240
 GGGNNGGGTG CACTCAATTG GNNNN 265

SEQ ID NO:7798

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09048

SEQUENCE DESCRIPTION:

GATCTTACCC GTGCNTGGNC CCCTCCCCTC ANAGCCCATG GTAACGAACC CCTAGAAAGG 60
 AGAGAACGGG CGTCAGGGGT GCACAGTCCA CAGCTGAAGA GCAAGGTTTN GTGGCAGCAC 120
 GGNCCGGCCC CTCACCTCT NTNCCN 146

SEQ ID NO:7799

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09049

SEQUENCE DESCRIPTION:

GATCTCCGGA CCTCGGCTGC AGAGGCCATC GCAGCTTTN AAAAGTNAAG TGGTTAATTC 60
CCATTGGTGT CTTTNCCTAT AGCATTTCN TCTAACCTAT AACAAGGGGG CATTACATT 120
ANCTTTAGAA CATGTGAATA GGAGGTTNC TCATGACTTA CCATTCCAGC TGNATGGGAA 180
AGCAAAGCAG AAAACAGTGC CCCAAATGGA AAANAGNTAC TCACACAGAN CAAAACAGTT 240
CTNGGTCTTG TCCTGGTCT TGTCAAACCT TGCCTGATGC TCTTCTAAN GTCNAAATAT 300
GANTGATAAG CCNGGCN 317

SEQ ID NO:7800

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09050

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTTGTGTAG TAAAGCATTG GGAGGGTCAT TCTTGTCACA AAAGTGCCAC 60
TAAAACAGCC TCAGGAGAAT AAATGACTTG CTTTCTAAA TCTCAGGTTT ATCTGGGCTC 120
TATCATATAG ACAGGCTTCT GATAGTTTGC AACTGTAAGC AGAAACCTAC ATATAGTTAA 180
NATCCTGGNC TTTCTGGTA AACAGATTTT AANTTTCTGA TATAAANCAN GCCNCAGGAG 240
AATTCGGGGA TTTNAGGTTT NCNGAATAGC CTATATATGG TGCATCGGNT AGGTCNTTAT 300
TGATTTTTTG ACCCTTTTCG GCTTTACCTN ATGGGAAGAC CCNGTTCNTT TTAAATNAT 360
CCNGGTTTTT GN 372

SEQ ID NO:7801

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09051

SEQUENCE DESCRIPTION:

GATCAACCTC TGAATTTTAC ATCATGAATG TAATCACCAC TGGAGCTTCA CTGTTACTAA 60
ATTATTAATT TTTGCCCTCC AGTGTTCTAT CTCTNAGGCT GAGCATTATA AGAAAATNAC 120
CTCTGCTCCT TTTCAATTGCA GAAAATTGCC AGGGGCTTAT TTCAGAACAA CTCCACTTA 180
CTTCCACTG GCTCTCAAAC TCTCTAACTT ATAAGTNTTG TGAACCCCA CCCAGGCAGT 240
ATCCATGAAA GCACAAGTGA CTAGTCCTAT GATGTACAAA GCCTGTATCT CTGTGATGAT 300
TTCTGTGCTC TCACTCTTT GCAATTGCTA AATAAGCAG ATTTTATAAA TACAAA 356

SEQ ID NO:7802

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09052

SEQUENCE DESCRIPTION:

GATCAAGCAG ATTCCACGAA TCCTCGGCCC AGGTTTAAAT AAGGCAGGAA AGTCCCTTC 60
 CCTGCTCACA CACAACGAAA ACATGGTGGC CAAAGTGGAT GAGGTGAAGT CCACAATCAA 120
 GTTCCAAATG AAGAAGGTGT TATGTCTGGC TGTAGCTGTT GGTCACGTGA AGATGCCNGA 180
 CGATGAGCTT GTGTATAACA TTCACCTGGC TGTCAACTTC TTGGTGTCAT TGCTCAAGAA 240
 AANCTGGCAG ANTGTTCCGG GGCCTTATNT TNTCAAGAGC ACCNTGGGGN AAAGCCCCCA 300
 GNGGCCTNTT NTTAAGGGCA CCGTTTNGAN NTAAAATTC TNGTTANCC AGTCNAAA 359

SEQ ID NO:7803

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09053

SEQUENCE DESCRIPTION:

GATCCGGCCA GTTCATTGAA CAAACCTTTC CTTTTCTAA AGTCCAGAA GCCTTCCTGA 60
 AGGTGGAAG AGGACACGCA CGAGGAAAGA CTGTAATTA TGTGTTTAA ATAAAAATGC 120
 AGTTTAGTGA TAAA 134

SEQ ID NO:7804

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09054

SEQUENCE DESCRIPTION:

GATCTACTGA CATTAGCAC TTTGTACAGT ACAAATAAA GTCTACATT GTTTAAACA 60
 AA 62

SEQ ID NO:7805

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09055

SEQUENCE DESCRIPTION:

GATCTGGATG ATGGTTATGT AGCTGCATAT ATTTGTCAAC ATTCCTCATG CTGTATGTT 60
 AGATTGTGA TTTTACTATA TGTAATAA TTCCTTAATA AAATACTATT ATAAAAATAA 120

SEQ ID NO:7806

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09056

SEQUENCE DESCRIPTION:

GATCTAATCT TCTGTGCTCT GTGTATTGGC GACGAGCAGG GTGAGAATAA GTGCGTGCCC 60
 AACAGCAATN AGAGATACTA CGGCTACACT GGGGCTTTCC GGTGCCTGGC TGAGAATGCT 120
 GGAGACGTTG CATTTGTGAA AGATGTCACT GTCTTGCAAG AACTGATGC CCTCCTGGAA 180

GCCTGTGAAT TCCTCAGGAA GTAAAACCN

209

SEQ ID NO:7807

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09057

SEQUENCE DESCRIPTION:

GATCTTAATT TAAAAATTA AAACCTGGNG TTTTAAAT AAAACCTTT TGTCTAAA 59

SEQ ID NO:7808

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09058

SEQUENCE DESCRIPTION:

GATCAAAGTA ATTGCTTAAA TGTCTGTGG AATNAGCTGT CACTTTATAG TTTATGTATT 60
GTGGTGGGTA CCTTAATAAT AAAAAGATT TTAATGTAAA 100

SEQ ID NO:7809

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09059

SEQUENCE DESCRIPTION:

GATCTGTTTG ATGGTTACAT CAGTGTATAT TTGTCAAAAT TCCTCAAACGT GTATGCTTAA 60
GGCTTTGTGC ATTGTATTGC ATGTAAATNA TACTTCAATA AAGTACCAAT AGCATAAA 118

SEQ ID NO:7810

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09060

SEQUENCE DESCRIPTION:

GATCCATAAC CTCTTTAGAG ACCGGCTCCT GGATGCAGAA TCCTATGAGG TTCTGGCCAC 60
ACCTGTTTCT TGCCNTCAG GGGCTGACAC CCATGTNCCA TCCCTCTAAA CCCCTGTCCC 120
TAAACCTACC CCATCTNATG TAACTCTGGG GTTCCTTGGT CATTAGAGGG TTTNAGGTC 180
AAA 183

SEQ ID NO:7811

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09061

SEQUENCE DESCRIPTION:

GATCTGAATG GTTTTAATAA GTGTCTGGNA ATTCCCCTGC TTGCACTTGT NTNTCTCGCC 60
 CACCACCACG TAAGACGTGC CTGCTTCCCC TTCTGCCATG ATTGTAAGTT TCCTGAGGCG 120
 TCCCCAGCCA TGCAGAACTG TGAGTCAATG AAACCTCTTT TTTTATAAA TAAA 175

SEQ ID NO:7812

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09062

SEQUENCE DESCRIPTION:

GATCCCCAT TCCCCACCT GGGAGATGAG GGGGTCCCCA TGTGCTTTTC CAGTTCTTCT 60
 GGAATTGGGG GACCNCCGCC AAAGACTGAG CCCCCTGTNT CCTCCATCAT TTGGTTTCCT 120
 CTGGGCTTTG GGGATACTTC TAAATTTTGG GAGCTCCTCC ATCTCCAATG GCTGGGATT 180
 GTGGCAGGGA TTCCACTCAG AACCTCTCTG GAATTGTGTC CTGATGTGCC TTCCACTGGA 240
 TTTTGGGGTT CCCAGCACCC CATGTGGATT TTGGGGGGTC CCTTTGTGT CTCCCCGCC 300
 ATTCAAGGAC TCCTNTCTTT TTTCAANN 329

SEQ ID NO:7813

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09063

SEQUENCE DESCRIPTION:

GATCTGCCAG CCCTACATCC GGCCGGGGCC CAGGGAGGGG AGCAAGGAGA AGGCAGGTGC 60
 GCGCANAAGC GGGCCCTGGA GGAAGAGGAG GGTGGCACGG AGGTCCTGTC CAAGAACAAG 120
 CAAAAGAAGC AGCTGAGGAA CCCCCACAAG ACCTTCGACC CCTCTTTGAA GCCAAAATAT 180
 GCAAGTNTG ACCAGTGTGG AAACCCAAAG GGCAACAGAT GTNTGTTGAG CCTGTGCCGN 240
 GGCTGCTGCA NGANGCGNGC CTTCAAAGNG ACTGCAGACT GNCCAGGTNA CGGTTTGCTT 300
 TTTAAACCA ATTNNGGAGA AGTTN 326

SEQ ID NO:7814

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09064

SEQUENCE DESCRIPTION:

GATCGGAATG NAAATCTAAA 20

SEQ ID NO:7815

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09065

SEQUENCE DESCRIPTION:

GATCAATGTT GAAAGTGTG TTATATGGCA AGTNTTTAAC ACATTCACAG TGTGTGTTG 60

ATTCAACTG TGAATTGTCT TACAGTTTTT TCAAACCTAG TTGTTTCTAT GGACACCTGC 120
TCTGAATTGT ACATTGACTN CATTACTAAA GAACAAAAAT GTTCATTTTT GTCCCAGTAA 180
ATTGAGACTG CTTGTACACT TTCAGAAAAA TATGTGAATT TATAAAGNTT TTGTAGATAC 240
TTGTCAAA 248

SEQ ID NO:7816

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09066

SEQUENCE DESCRIPTION:

GATCCCCGGA TTNACACTC CTTCTGTTTT GTTGCCGTTT ATTTTGTAC TCAAATCTCT 60
ACATGGAGAT AAATNATTTA AACCAAA 87

SEQ ID NO:7817

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09067

SEQUENCE DESCRIPTION:

GATCCACCTG NCCCTGACCT CCGACAGTGC TGGGATTACA GGCATAGCCA CCGTGCCTGA 60
CCAGGGCTCT TTTAGCAAGG AAAACGTGAG GAATGAATGG CTGTTGGTGT GCAACAAATC 120
ATACTTGCTA CATGTTGTGA ACCTGAAGTT ATTTGTTAGT CTGTATGAAG AATGTACCCC 180
AGAGATGCAC CCTGTATCTG CCTTATGTCT CTTACAATGG AGGTTCTCTC CTGTTATATT 240
GCTGAATAAA CTATGTGAAC TGCTAAA 267

SEQ ID NO:7818

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09068

SEQUENCE DESCRIPTION:

GATCTTCAAG CAAGAAAATA AA 22

SEQ ID NO:7819

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09069

SEQUENCE DESCRIPTION:

GATCATAGCT GAAAATTAAT GATACTGTCA ATTTGAGATA GCAGAAGTTT CACACATCAA 60
AGTAAAAGAT TTGCATATCA TTATACTAAA 90

SEQ ID NO:7820

LENGTH:25

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09070
SEQUENCE DESCRIPTION:
GATCATTAATAA AAATTAATAA AGAAA

25

SEQ ID NO:7821
LENGTH:33
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09071
SEQUENCE DESCRIPTION:
GATCCCAATG AAACGAATTC TGTCTCCCTG AAA

33

SEQ ID NO:7822
LENGTH:23
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09072
SEQUENCE DESCRIPTION:
GATCTTCAAG CAAGTTAANT AAA

23

SEQ ID NO:7823
LENGTH:75
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09073
SEQUENCE DESCRIPTION:
GATCTTCATT TAGCTCCTTT ACTGGGATTT ATTGGATGCT NGTAAAAAAA TAAAATTTAC 60
ACTGTNTATG CGAAA 75

SEQ ID NO:7824
LENGTH:284
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09074
SEQUENCE DESCRIPTION:
GATCAAGAAA GGGCTGTGGC TTGTATCAAA GGGTGTTTAA AAGGATTTAC TATCAGATTT 60
GGCCTTGTTT TCTGTGATTT TGGNNAGCGT TCAAGGAAGC CAGGCTTTGG TCTGGATTGG 120
ATGTTCTCAG GTCATGAATA TAATTCTCTG GGAAGTCCCA AAGTTCTCAT CTACAAAGCA 180
GAAGTTAATT GGAGCTGAAA ACTAATCAGT AAAGCCACAG CAGCCAGTCA TATGGGGGAG 240
AAGAGGGGAA TGTGTTGATGG TTTTGTGGT TTAGAGGTGA GTTN 284

SEQ ID NO:7825
LENGTH:21

TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09075
SEQUENCE DESCRIPTION:
GATCCTTTGT TAACAAATAA A

21

SEQ ID NO:7826
LENGTH:159
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09076
SEQUENCE DESCRIPTION:
GATCATATTT ATTTAACTA TTTTITTAGA AAATTATTAA TTTTAATTGT ATTTTGTAT 60
TTAAAAAGCT TCTTCACTTG TTTTCCCTAA NNNTTCANAT TGCTGCCCAA AAGTATGACT 120
GTGGAGGAAA AAAAANTACT TNAANTCC ACACITTTN 159

SEQ ID NO:7827
LENGTH:328
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09077
SEQUENCE DESCRIPTION:
GATCTGTGCA GGGTATTAACT GTGTCAGGGC TGAGTGTCT GGGATTTCTC TAGAGGCTGG 60
CAAGAACCAG TTGTTTTGTC TTGCGGGTCT GTCAGGGTTG GAAAGTCCAA GCCGTAGACC 120
CAGTTTCCTT TCTNAGCTGA TGTCTTTGGC CAGAACACCG TGGGCTGTTA CTTNCNTTNA 180
GTTGGAAGCG GTTGCATT ACGCCTGTAA ATGTATTCAN TCTTAANTTA TGTAAGGTNT 240
TTNTGTACG CAATTCTCGG TTCTTTGANG NGATGGCAAC AAATTTTGGG NTTCTACTGT 300
TATGTTGGGG NNCATTNGGG CCCANGNN 328

SEQ ID NO:7828
LENGTH:108
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09078
SEQUENCE DESCRIPTION:
GATCTCCTGA CCTCGTCATC CGCCCGTNTC GGCCTCCCAT AGTGCTGGGN TTACAGGCAT 60
GAGCCACCAC GCCCGGCTGT TTTATTTCTT ATAAGTGTAC AGGANNNN 108

SEQ ID NO:7829
LENGTH:277
TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS09079
SEQUENCE DESCRIPTION:
GATCATGAAG CCATCAGCTC CTCTGGGGCC AGCTANAGGA CAACAGAACT NTCACCAAAG 60

GACCAGACAC AGTGAGCACC ATGGGACAGT NTCGGTCAGC CAACGCAGAG GATGCTCAGG 120
AATTCANTGA TGTGGNGAGG GCCATTGAGA CCCTCATCAA GAACTTTCAC CAGTACTCCG 180
TGGAGGGTGG GNAGGNGACG CTGACCCCTT CTAAGCTACG GGACCNGGGT CACCCAGCAG 240
CTGCCCCATN TTNATGCCGA GCAACTTNTN GNCTGGN 277

SEQ ID NO:7830

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09080

SEQUENCE DESCRIPTION:

GATCAGACCA AACAGTGCTG TTTCCCGGGG AGGAAACACT TTTTAAATTA CCCTTTTGCA 60
GGCTCCCACC TTTAATCTGT TTTATACCTT GCTTATTAATG TGAGCGACTT AAAATNATTG 120
AAA 123

SEQ ID NO:7831

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09081

SEQUENCE DESCRIPTION:

GATCCAGAAA TGGAGACTGG ACCTTCCAGA CCCTGGTGAA TGCTGGAAC AGTTCCTCGG 60
AGTGGAGAGG TTTACACCTG CCAAGTGGAG CACCCAAGCC TGACGAGCCC TCTNACAGTG 120
GAATGGAGAG CACGGTCTGA ATCTNCACAG AGCAAGATGC TGAGTGGAGT CGGGGGCTTC 180
GTGCTGGGCC TGCTCTTCCT TGGGGCCGGG CTGTTTCATCT ACTTCAGGAA TCAGAAAGGA 240
CACTCTGGAC TTCAGCCAAC AGGATTCTCTG AGCTGAAGTG AAGATGNCCA CATTCAAGGA 300
AGAACCTTCT GCCCAGCTT TGCAGGATGA ANCACTTN 338

SEQ ID NO:7832

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09082

SEQUENCE DESCRIPTION:

GATCTAATCT CAAATACAGT GCTTAGTAAG GGAACCTTG TGCCTTTGGG GATTGCGGA 60
TTAAACGAA TCTTTTAAAT ATATTCCAA ATATTAAAT ATAAAGGAT ATTCCTCTG 120
ATGTTAAAG TGAGTATGGG GGTGGCACAT TATATGGAAA GTNCCATGTT TGCTTAANTG 180
CTATGTAAAA TAACTTGGCA TATTANTGA CTTTGANTGT GAAANTCATA TGCCCTTNGA 240
NTATGGNTGC CTTAGCTCAT TTGACANCTG GNAGANTACT TGTNTATCTN GTTTNAGACA 300
CATTGANTN 309

SEQ ID NO:7833

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09083

SEQUENCE DESCRIPTION:

GATCCAAAGT GGCAGGAGGT CTGTGTTGTC ATGGNGAACT GGAGTTTCTC TTGTAAGAGT 60
 TCCCTCATCT GAAATCATGT ATCTNTCTCA CAAATACAAG CATAAGTAGA AGATTGTGTTG 120
 AAGACATAGA ACCCTTATAA AGAATTATTA ACCTTTATAA NCATTTAANG TCTTGTNAGC 180
 ACCTGGGAAT TAGTATAATN CCANTGTAA TTTTTNNAT TTACATTTTG TNN 233

SEQ ID NO:7834

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09084

SEQUENCE DESCRIPTION:

GATCGGAATT TNACAGAATT GGGACTGTGG AACCNNGGGT CACTTGAATT TCCTATATTT 60
 TGTATGGCCA AATCAGGAAC CAGACAGTCT CCATAGTCN 99

SEQ ID NO:7835

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09085

SEQUENCE DESCRIPTION:

GATCAGCCGA TGACAGAGAT TGTAAAGCCGT GTGTCGAAGC GAAACTGGNG CCGCCACGTG 60
 CGGGCNCCTGG TGCTTGACCT GTGCTGTAAC GACGAGAGCG GCGAGGATGT CGNGGGGCNA 120
 NAAAAACGGT ACACCATCCG CTGACCCCGT CTGCTCCTCT AGGCTGGCCC CTTGTCCACC 180
 CCTCTCCACA CCCCTTCCAG CCCAGGGTTC CCATTTGGCT TCTGGCAGTG GCCCAACTAG 240
 CCAAGTCTGG TGTCCCTCA TNATCCCNCT TACCTGAACC CNTNTTGN 288

SEQ ID NO:7836

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09086

SEQUENCE DESCRIPTION:

GATCTAAATA AAATGGACNG TTCTACCTTA AA 32

SEQ ID NO:7837

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09087

SEQUENCE DESCRIPTION:

GATCTGAAAC AGATGAAAGT TATAATAGTT TACATACCTT ACCTTAAAGT ATGGTTTTTA 60
 AATACTTAAG ATGTGATATG ACATATAGTG TGTATATATA TCTNATNCTA NNGGAAAAAG 120
 GGACATTAAA AAAGCTTATG TTAAGATA AA 152

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SEQ ID NO:7838

LENGTH:108

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

GATCGTTCTT CATGGGGGTA AGAAAAGCTG GTCTGGAGTT GCTGAATGTT GCATTAATTG 60
TCCTGTTTGC TTGTAGTTGA ATAAAAATAG AAACCTGAAT GAAGGAAA 108

SEQ ID NO:7839

LENGTH:30

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

TGAAAATTTA TTACTACAGT GTTTTCACCA 30

SEQ ID NO:7840

LENGTH:20

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

TAATACGACT CACTATAGGG 20

02205

2153480

SEQ ID NO:7841
LENGTH:25
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
CTTCTTTCTG TAGCCAGGTA ACTCT

25

SEQ ID NO:7842
LENGTH:25
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
TTTTCGGCGC TCCCATTTAT TCCTT

25

SEQ ID NO:7843
LENGTH:35
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
CACGAATTCA CTATCGATTG TGGAACCTTC AGAGG- NH2

35

02206

2153480

SEQ ID NO:7844

LENGTH:37

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

CTCGCTCGCC CATCCTTATA CAGGCTCAGT TTTGTCT

37

SEQ ID NO:7845

LENGTH:37

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

CTCGCTCGCC CATGTATAGG GACAGCATTT CTGAGAG

37

SEQ ID NO:7846

LENGTH:38

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

CTGGTTCGGC CCACCTCTGA AGGTTCCAGA ATCGATAG

38

02207

2153480

SEQ ID NO:7847
LENGTH:22
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
CCAGGGTTTT CCCAGTCACG AC

22

SEQ ID NO:7848
LENGTH:22
TYPE:nucleic acid
STRANDEDNESS:single
TOPOLOGY:linear
SEQUENCE DESCRIPTION:
TCACACAGGA AACAGCTATG AC

22

02208

DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET
COMPREND PLUS D'UN TOME.

CECI EST LE TOME _____ DE _____

NOTE: Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

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JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE
THAN ONE VOLUME

THIS IS VOLUME 8 OF 8

NOTE: For additional volumes please contact the Canadian Patent Office

Claims as amended under Article 19 of the PCT

1. A purified single-stranded DNA comprising any of the nucleotide sequences listed under SEQ ID NO 1 - 7837.
2. A purified single-stranded DNA complementary to a DNA according to Claim 1.
3. A purified double-stranded DNA consisting of a DNA according to Claim 1 and a DNA according to Claim 2.
4. A purified single-stranded DNA comprising a portion of any of the nucleotide sequences listed under SEQ ID NO 1 - 7837 and hybridizing specifically to a particular site of human genomic DNA, human cDNA or human mRNA.
5. A purified single-stranded DNA complementary to a DNA according to Claim 4.
6. A purified double-stranded DNA consisting of a DNA according to Claim 4 and a DNA according to Claim 5.
7. A purified single-stranded DNA complementary to a human mRNA containing any of the nucleotide sequences listed under SEQ ID NO 1 - 7837 (wherein T is read as U) at its 3' region.
8. A purified single-stranded DNA complementary to a DNA according to Claim 7.
9. A purified double-stranded DNA consisting of a DNA according to Claim 7 and a DNA according to Claim 8.
10. A purified single-stranded DNA complementary to a portion of a human mRNA containing any of the nucleotide sequences listed under SEQ ID NO 1 - 7837 (wherein T is read as U) at its 3' region.

11. A purified single-stranded DNA complementary to a DNA according to Claim 10.
12. A purified double-stranded DNA consisting of a DNA according to Claim 10 and a DNA according to Claim 11.
13. A DNA probe consisting of a DNA according to Claim 1.
14. A DNA probe consisting of a DNA according to Claim 2.
15. A DNA probe consisting of a DNA according to Claim 4.
16. A DNA probe consisting of a DNA according to Claim 5.
17. A DNA probe consisting of a DNA according to Claim 7.
18. A DNA probe consisting of a DNA according to Claim 8.
19. A DNA probe consisting of a DNA according to Claim 10.
20. A DNA probe consisting of a DNA according to Claim 11.
21. A DNA primer consisting of a DNA according to Claim 1.
22. A DNA primer consisting of a DNA according to Claim 2.
23. A DNA primer consisting of a DNA according to Claim 4.
24. A DNA primer consisting of a DNA according to Claim 5.
25. A DNA primer consisting of a DNA according to Claim 7.
26. A DNA primer consisting of a DNA according to Claim 8.
27. A DNA primer consisting of a DNA according to Claim 10.
28. A DNA primer consisting of a DNA according to Claim 11.

Abstract

3'-directed cDNA libraries which faithfully represent the relative concentrations of cellular mRNA species were prepared from various human tissues and the sequences of the cDNA species contained in the libraries were determined. The frequency of appearance was then determined for each cDNA species with respect to each of the tissues studied. Since the identified cDNA species has attached information on the expression level of the gene as represented by the relative concentration of mRNA, it can be used as a probe or a primer to detect cellular abnormalities and to distinguish between different cell types. In addition, such a cDNA species, once cloned, can be used to produce a protein for pharmaceutical application.